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FEBRUARY 26, 1927.

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Vol. CVI.

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Great Britain

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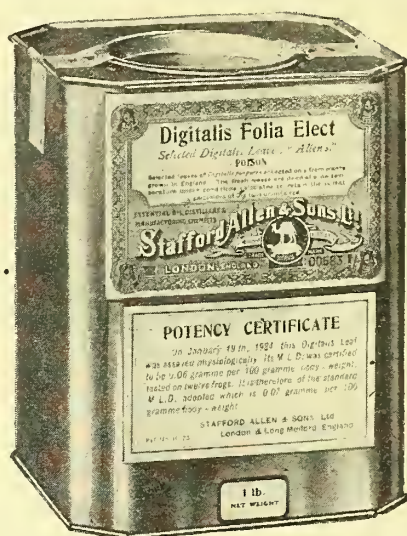
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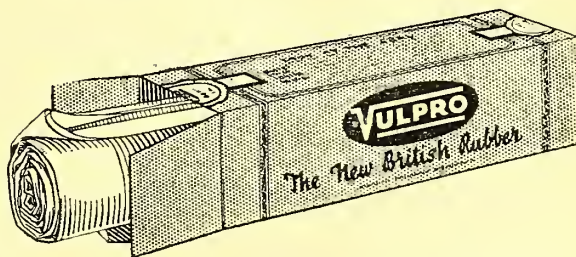
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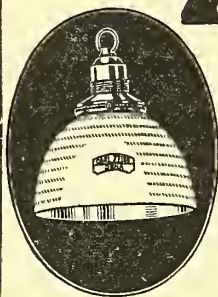
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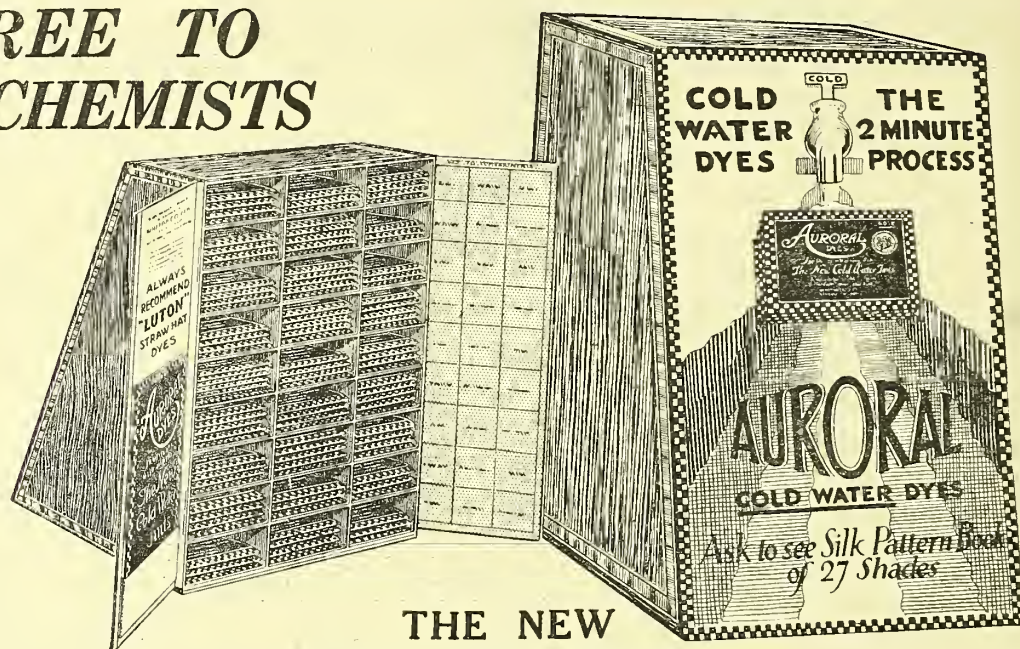
*Manufacturers of "MAGLACTIS," the Pure Hydrate of Magnesia with the continuous action.*

O. & S.





# FREE TO CHEMISTS



## THE NEW WHITAKER BOOKLET "THE MAGIC OF COLOUR"

IS NOW BEING DISTRIBUTED TO ALL CHEMISTS.

This booklet gives full details of the Whitaker Advertising Campaign, special terms for chemists, and the offer of THE NEW AURORAL COLD WATER DYE COUNTER CABINET, as illustrated above. It is well worth your while to study the Whitaker programme for 1927 business, and *please send your orders early.*

## AURORAL COUNTER CABINET

**AURORAL** Just the thing for  
Dance Frocks and  
Dainty Lingerie.

**COLD WATER DYES**

Good trade should be done in this line now by recommending it for this purpose to your customers. Recognised as the finest cold water dyes in the world for delicate and costly fabrics. Good results obtained even at the first trial. A certain seller.

**'LUTON'** HOT-  
WATER  
FABRIC  
DYES

The best hot-water dyes for all materials, giving perfect results with the minimum of trouble. As with all other Whitaker products, they show a good profit.

## FREE

ON REQUEST with orders for 1 Gross Assorted AURORAL COLD WATER DYES—the Trade Price for which is £28 0 and less 5% Discount if prompt cash payment is made. The Retail value of these Dyes is £3 12 0, so that the transaction shows more than 33% net profit, or more than 50% on the turnover. Only one Cabinet (which is of a lasting and permanent nature) can be supplied to each customer. The dimensions of the Cabinet are—height of front 15 ins., width of front 11 ins., breadth at top 5 ins., breadth at bottom 10 ins.

Send us your order To-night, and the Cabinet with your stock of AURORAL DYES will be sent immediately.

**'LUTON'** STRAW  
HAT  
DYES

The outcome of 45 years' accumulated experience in the manufacture of household dyes. This series comprises all colours and is in demand practically all the year round. They are all highly efficient dyes and appeal to every woman on economical as well as fashionable grounds. Supplied in dull or glossy series.

**VELT** THE NEW  
CLEANER

A cleaning preparation for removing stains, grease, dirt, etc., from clothing, upholstery, curtains, etc., and renovating them. VELT is a non-inflammable liquid and is supplied in screw tins of which three dozens are contained in an attractive outer. A new Whitaker product, but nevertheless one which is all ready selling well. It is now available in 5-oz., 10-oz., and 20-oz. tins for the convenience of bigger users.

ALL CASES AND CONTAINERS FREE.

**WHITAKER & CO.,** Dye Specialists for Chemists, **KENDAL**

Telegrams: "Dullette, Kendal."

(Established 1878.)

Telephone 214.

London Office  
and Showrooms:

16-18 Beak Street, REGENT STREET, W.1 Telephone: Regent 3825



# Maw's Page



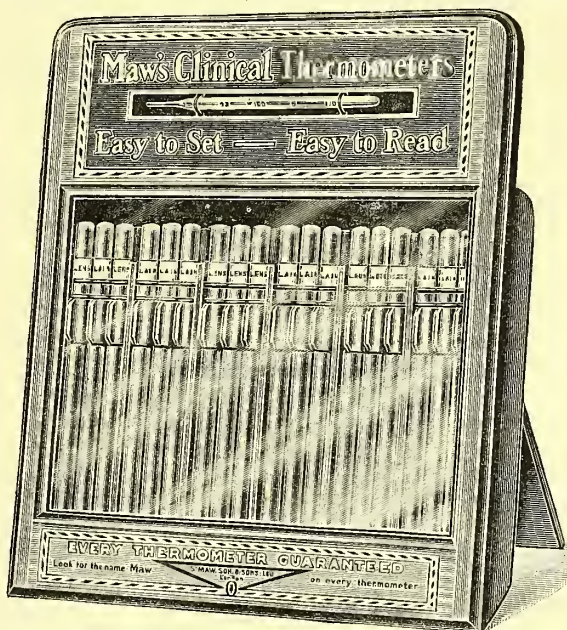
## A steady stream of Profits from Maw's Clinical Thermometers

Every housewife worthy of the name, now regards it a part of her duty to recognise the symptoms of serious illness and to safeguard health by anticipating danger. A clinical thermometer is her most powerful ally, and when she knows this she will never be without one. There isn't a housewife who comes into your pharmacy who is not a possible customer for a clinical thermometer. Your problem is, first, to keep clinical thermometers before her, and, second, to explain to her their purpose.

Maw's Clinical showcase will do the first and the showcard supplied with Maw's clinicals will do the second for you.

You have only to stand the showcase on your counter and display the showcard in any convenient position in your pharmacy to start a steady stream of sales and substantial profits.

The showcase and showcard are supplied free with initial orders for 3 dozen clinical thermometers selected from the list below.



		Ordinary		Easy Set	
		Each	Dozen	Each	Dozen
1/4917	Maw's 2-3 min. Plain ..	1 2	11/-	1 5	13/3
1/4918	„ „ Magnifying ..	1 3	11/6	1 7	13/9
1/4919	„ 60 sec. Plain ..	1 3	12/6	1 7	14/9
1/4920	„ „ Magnifying ..	1 5	14/6	1 10	16/9
1/4921	„ 30 sec. Plain ..	1 4	13/9	1 9	16/-
1/4922	„ „ Magnifying ..	1 6	15/-	2/-	17/3
The above, printed in Black and Red above normal		..	..	..	per dozen 9d.
N.P.L. Tested, engraved on each		..	..	.. extra, each, 4d.	per dozen 3/2
N.P.L. Tested, with certificate		..	..	.. extra, each	1/2

**S. Maw, Son & Sons, Ltd.,**  
Aldersgate St., London,  
and Barnet.





# Schimmel & Co., MILTITZ LEIPZIG.

## SYNTHETIC FLORAL OILS

The pioneer work of Messrs. Schimmel & Company, beginning nearly a century ago, in the investigation of the chemical constituents to which living flower blossoms owe their *delightful fragrance*, finds its culmination in the oils comprising this group. They have been in widespread use for many years in perfume laboratories *throughout the entire world* and have successfully withstood the test of time. Basically the same, but modernized to keep pace with the progress made by continuous researches in the *world famous laboratories of Schimmel & Company*, they continue to yield the *same universal satisfaction* as in the past.

### Stabilize Your Costs !

SCHIMMEL & COMPANY'S SYNTHETIC FLORAL OILS are always uniform in *strength* and in *quality*. The prices do not vary as do those of the natural flower oils.

Among the leaders and especially recommended for trial and comparison by you are

SWEET PEA  
PATCHOULY  
VETIVER  
ROSE

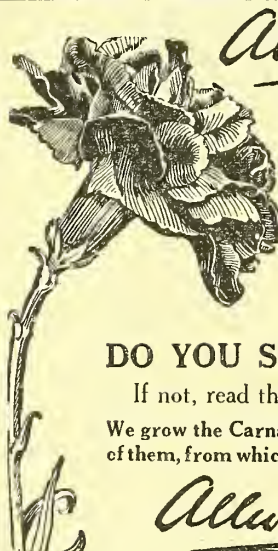
WALLFLOWER  
HYACINTH  
VIOLET  
NEROLI  
LAVENDER  
LILY of the VALLEY

YLANG - YLANG  
CARNATION  
JASMINE  
LILAC

Sole Distributors  
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*Allwood Bros*

### CARNATION PERFUME

Pot Pourri  
Compressed Blooms  
Silk Sachets  
Toilet Soap  
Bath Crystals

### DO YOU STOCK THEM?

If not, read the offer given below.

We grow the Carnations, endless thousands of them, from which the perfume is distilled.

*Allwood Bros*

THE LEADING CARNATION RAISERS & SPECIALISTS  
HAYWARDS HEATH

### SPECIAL OFFER

To a limited number of Chemists (one only in each Town) we are supplying our delightful Perfume on FULL SALE OR RETURN, with three months' credit. Write for particulars now.



### BORONIA

THE NEW PERFUME FROM THE AUSTRALIAN FORESTS WHICH HAS PROVED SUCH A SUCCESS ON THE CONTINENT.

Sample Size 1/3 10/- Doz.  
(10% for Window Display on Direct Orders).

E. N. BROMAGE & CO.  
Perfumers and Importers,  
73 SELHURST ROAD,  
LONDON, S.E.25.

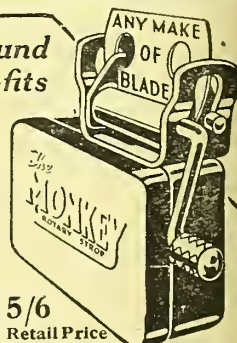
### An all-the-year-round Seller with good profits

This famous little device, quite the best form of strop on the market to-day, makes a strong appeal on account of its low price. In its handsome nickelled case, it only needs to be displayed on your counter to sell by the dozen—and every sale means 1/9 profit!

Salesmatter and particulars of this and other fast-moving Douglas Kirby lines on request. Obtainable from your usual wholesaler, or direct

DOUGLAS KIRBY & CO., LTD., 9/10 CHARING CROSS, LONDON, S.W.1.

Glasgow - - 47 Oswald Street, C.I.



5/6  
Retail Price



MEET THE POSTMAN

ON TUESDAY,  
MARCH 1st

HE WILL  
BRING YOU  
A COMMUNICATION  
ABOUT

*Saville's Jane Perfumery*

WHICH WILL BE OF  
**UNUSUAL INTEREST**  
TO  
**EVERY RETAIL PHARMACIST**  
IN THE COUNTRY—

—BUT ENOUGH FOR THE MOMENT—  
OUR PROPOSITION IS BIG ENOUGH  
TO SPEAK FOR ITSELF.  
LOOK FOR IT ON MARCH 1st

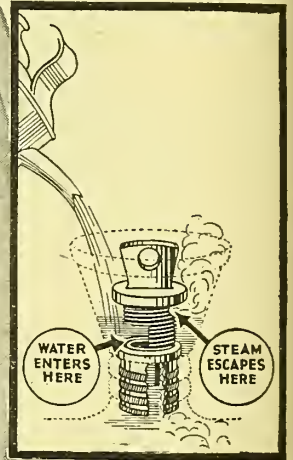
SAVILLE PERFUMERY LIMITED, JUNCTION LABORATORIES, WATFORD, HERTS.

# The safest and simplest Hot Water Bag in the world

THE Macintosh Anti-scald Hot Water Bag is so superior in every way to all other hot water bags, that it practically sells itself—once your customers have seen it. Get your stocks ready *now* to meet the demand our advertising is creating.



The patent stopper illustrated here is an exclusive feature of the Macintosh Anti-scald Hot Water Bag.



## THE MACINTOSH

### *Anti-Scald* HOT WATER BAG

*Ask your usual suppliers for full particulars and trade terms.*

**CHAS. MACINTOSH & CO. LTD.**

**LONDON:**  
22-23, JEWIN ST., E.C.1.  
Telephone: 3064 City.  
Telegrams: Lark, Barb., London.

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Telephone: 7147 Central.  
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Branches throughout



the Country.



# Free jars



These jars help your display—  
display sells the goods, and we  
bear the cost. When empty the

jars are suitable for a variety of  
purposes, *e.g.*, Soaps, Powder  
Puffs, Combs, Brushes, &c.

Free Jar with		Per lb.
7 lbs.	Antiseptic Throat Pastilles . . . .	2/3, 2/9
7 "	Bismuth Lozenges . . . . .	3/1
7 "	Bismuth Indigestion Tablets . . . .	2/0
7 "	Bismuthated Magnesia & Mint Tablets	2/9
7 "	Brompton Lozenges . . . . .	1/11
28 "	Candies (Cough, Cream, Mint, Lime Fruit, Lime Juice)	1/2
16 "	Cherry Pastilles (Dr. Monroe's) . . .	1/7
7 "	Fragrant Cachous . . . . .	2/5
7 "	Formalin & Mint Tablets . . . .	2/0
7 "	Glycerine Pastilles . . . . .	3/3
7 "	Glycerine & Black Currant Pastilles	3/3
16 "	Glycerine, Honey & Lemon Pastilles	1/7
7 "	Iodised Throat Tablets . . . . .	2/10
16 "	Mixed Fruit Pastilles . . . . .	1/7
7 "	Licorice & Menthol Pellets . . . .	4/0
7 "	Peppermints . . . . .	3/0
7 "	"Pinettes" . . . . .	2/0
7 "	Sore Throat Tablets . . . . .	3/0
28 "	Sulphur Tablets . . . . .	1/0 28-lb. lots 1/2 7-lb. lots

**AYRTON, SAUNDERS & CO. LTD.**  
34 HANOVER STREET • LIVERPOOL

## TRUFOOD IS SOLD ONLY BY CHEMISTS

*This statement is made in every  
one of our Press Advertisements.*

# - THEN THINK OF THE FEEDING BOTTLES AND OTHER THINGS

If a mother buys Humanised Trufood from you she naturally comes to you also for those other profitable baby side lines. Humanised Trufood is sold only by chemists, so all the Humanised Trufood "baby business" is handled by Chemists alone.

HUMANISED  
**TRUFOOD**

*Nearest to Mother's Milk*

Trufood Limited, The Creameries,  
Wrenbury, Nr. Nantwich, Cheshire.

T.F.223-130



## UP, UP, UP, go the SALES of New Zealand 'Imperial Bee' Honey

STOCK, and get your share of profits in this  
EMPIRE PRODUCT. It is a thick,  
creamy, irresistible HONEY, rich in vitamins  
because it is uncooked.

GUARANTEED PURE and WITHOUT PRESERVATIVES.

CASES per doz. carriage paid.

48/1's Glass Screw-Top Jars at 14/0 | 48/1's Monopots at 12/6  
48/2's " " " " 8/6 | 48/2's " " 7/3

*If you cannot obtain supplies through your Wholesaler, write to*

**A. J. Mills & Co., Ltd., 14 Tooley St., S.E.1**

BCM/APS7



## BRAND'S ESSENCE

of Beef, Mutton or Chicken  
consists solely of the juice of  
the finest meats, prepared  
with the greatest care under  
the most hygienic conditions.

Essential in the Sick Room.

*Sold by all Chemists and Stores.*

**BRAND & CO., LTD.**

Mayfair Works, Vauxhall, LONDON, S.W.8.



You will never find  
"Mineral Spring" here



### THE RULE HOLDS GOOD for 1927

The "Mineral Spring" sales policy remains unchanged. This fine effervescent is one of the few well-known salines which are not supplied to the grocery trade.

*The Chemists' Own  
Effervescent*

"MINERAL SPRING" is still the Chemists' Own Effervescent and cannot be included with the weekly grocery order. Repeat orders for "Mineral Spring" come to the Pharmacy. Build up your own goodwill and specialise in "Mineral Spring."

THOMAS KERFOOT & CO LTD  
BARDSLEY VALE, LANCASHIRE,  
& Bardsley House, London, N.1  
ESTABLISHED 1797.

B/758

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## The Best is Good Enough

### TOLKIEN'S MALT EXT. MALT & OIL

C. Tolkien & Co.  
Makers of Malt Products of Quality  
BLACKBURN



# PURE ORANGE WINE

## A. MILLAR & CO., LTD., DUBLIN

VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only.)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

## EMBOSSSED SHOWCARDS and PRICE TICKETS

IN SMALL OR LARGE QUANTITIES.

Ask for Sample and Prices—

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## LABELS

For Chemists, Drug Stores and Herbalists. Slip Labels 2/6 per 1,000. Dispensing Labels 3/6 per 1,000. Circles 3/6 per 1,000. Pure Gummed Paper. Price List and samples sent on receipt of a post card.

ELLAMS & COMPANY, Medical Label Printers,  
Est. 1840. 33 HANOVER STREET, LIVERPOOL.



## Saint-Raphael

Tonic, Restorative,  
Digestive Wine.

Known throughout the World,  
and prescribed in all cases of  
ANÆMIA, DEBILITY, and CON-  
VALESCENCE, to Young Women,  
Children and the Aged.

DOSE : One wine-glass after the  
two principal meals.

Recommended by—  
PROF. BOUCHARDAT, Professor of  
Hygiene, Paris Faculty of Medicine.  
DR. MACNAUGHTON JONES, London,  
England.

"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie, Ros on Chomel, Velpéau, Requin, Monneret, Trousseau, Grisolle, Laënnec, &c."—*Union Médicale*, May 8 and June 12, 1873.

"The 'Vin de St. Raphaël' is often used for ladies nursing their own children; it is preferable to stout, which creates an unhealthy fat."—*The Lancet* London, England.

"St. Raphaël Wine is most precious in all cases where it is necessary to give tone to the system, without effort or shock."—DR. C. DES BARRES.

Cie du VIN SAINT RAPHAEL, Valence, Drome, FRANCE

To be obtained from all  
Wholesale Druggists.

## RIDGE'S FOOD

for Infants and Invalids

WELL ADVERTISED to the GENERAL PUBLIC.

SAMPLES, ADVERTISING MATTER and SPECIAL  
DISPLAY TERMS ON APPLICATION TO :

ROYAL FOOD MILLS, LONDON, N.16

## NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to—

OSCAR SCRUTON & CO., YORK





# Why "Berina" SELLS

The outstanding excellence of "Berina" Food is substantiated by the numerous testimonials which are being received daily from Matrons, Doctors, Nurses and Mothers, two of which are here reproduced:

"I have given 'Berina' Food a fair trial on a baby boy whose mother was unable to nurse. He got nothing but 'Berina' Food from birth, his bowels moved regularly, he never was sick. He got a feed every three hours during the day and every four hours during the night. He left here on Saturday, 9th October, a happy, contented infant, he being then 18 days old. His mother intends to continue with 'Berina.' I shall recommend 'Berina' Food whenever an opportunity occurs."—MATRON.

"We would like to say that 'Berina' has the support of our staff and there is no food that is sold with greater confidence here than 'Berina.' The writer is bringing up his 'Queen Baby' solely on 'Berina,' and although now only 6 months old she weighs 19½ lbs. She is the picture of health itself and requires no orange juice or other 'fads' for her bowels—in short, she needs nothing but her 'Berina.'"

Whole Cream Milk, Sugar of Milk, Cream of Wheat—these are the actual ingredients of "Berina," which, although primarily prepared in the interests of child welfare, is also a nourishing diet for invalids and the aged.

The Professionally Approved  
Infant Food.



The proprietors of "Berina," Montgomerie & Co., Ltd., Fairley Street, Ibrox, Glasgow, invite your enquiries and will be pleased to send samples and full particulars.



SOFT HANDS  
WHITE HANDS  
DRY HANDS

§ § §

*Spurway's*  
**ORANGE &  
LEMON  
CREAM**

for the hands  
PREVENTS SUNBURN  
AND CHILBLAINS.

Checks Perspiration.

A beautiful non-greasy Cream  
exquisitely perfumed and packed  
in a highly artistic style.

**SELLS AT SIGHT.  
BRINGS REPEAT ORDERS.**

*An "All-the-year-round" Line*

	1 doz. lots.	3 doz. lots.
1/9 size	14/-	13/-
1/3 "	10/-	9/-
10 1/2 d. " (sample size)	7/-	6/6

**SPURWAY ET CIE.**  
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**MOHAWK  
OIL  
PEPPERMINT**

Single Distilled American  
Redistilled, U.S.P., American

Preferred and specified by manufac-  
turers as products of unexcelled  
purity and delicacy of flavour.

MAY WE SUBMIT SAMPLES.

**EXPORTERS OF CLARIFIED  
BALSAMS**

Copaiba—Fir, Oregon—Fir, Canada

**MAGNUS, MABEE & REYNARD, Inc.**

*American Essential Oils*

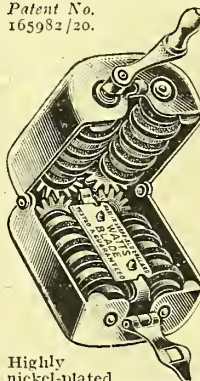
32 CLIFF ST., NEW YORK, U.S.A.

Sole Selling Agents for the British Isles:—

**OLD STRAND CHEMICAL & TRADING Co., Ltd.**

Audrey House, Ely Place - LONDON, E.C.1.

Patent No.  
165982/20.



Highly  
nickel-plated.

**A REMARKABLE  
BRITISH INVENTION.**

THE  
**"SPIRO"**  
SAFETY RAZOR BLADE  
SHARPENER.

Every user of the "Watts" Safety Razor  
Blades is a potential purchaser.

**STRONG AND SIMPLE**  
No troublesome fixing. Drop blade on  
two pegs, close box, turn handle and  
—get a super keen blade in a moment.—

**Retails at 21/- each.**

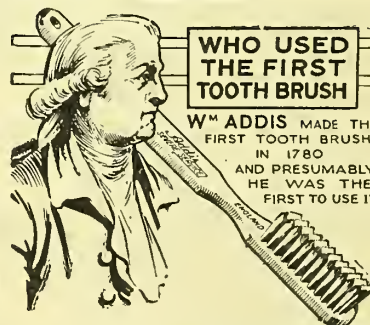
Allowing 50% profit on cost for the dealer.

Sole Manufacturer:

**JOHN WATTS, Lambert Works, SHEFFIELD.**

London Office & Showroom:

18 Soho Square, W.1. Phone: Gerrard 1306



Ask your Chemist  
or at any Branch  
of **BOOTS** for an  
**ADDIS** Tooth  
Brush, "PRO-  
PHYLACTION" or "SEVERE  
SERVICE" and  
benefit by our  
century and a half  
of invention and  
manufacturing  
experience.

**ADDIS**

BRUSH WORKS, HERTFORD, ENGLAND.



# Bourjois

PARIS

Latest Production

## Ashes of Violets BABY POWDER

Violet powder for Baby is a tradition, almost an instinct, with British mothers. *Ashes of Violets* Baby Powder gives an expression to this national sentiment. So dainty, but oh! so practical. For your counter it is the prettiest and most effective one dozen pack ever shown. Each tin is a picture in itself, and the combined effect of one dozen, with the raised lid and fall-down front, makes this line the surest seller in Baby Powders you ever handled. ∴ ∴



## How to Order

	Per doz.
No. 2643 - -	8/-
6 dozen lots - -	7/6

P.A.T.A.

1/-

A. BOURJOIS ET CIE, LTD., 4 Water Lane, London, E.C.4

PARIS

SYDNEY

WELLINGTON

NEW YORK

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# MERCOLIZED WAX

— : for the Complexion : —

and

# STALLAX

— : a Shampoo : —

**TWO** substantial and well-advertised lines which show a handsome profit to the Retailer, and, moreover, may be stocked fearlessly owing to the Manufacturers' most liberal Sale or Return Guarantee.

**Both** are obtainable in two sizes, and their reputation and sterling value assure a steady turnover.

*Order through your Wholesaler, or direct from :*

**DEARBORN (1923) LIMITED**  
**37 GRAY'S INN ROAD, LONDON, W.C.1.**

ESTABLISHED 1768.

## ANTOINE CHIRIS

### GRASSE

ESSENTIAL OILS  
 FLORAL WATERS  
 GUM BENZOIN  
 OLIVE OIL

**ANTOINE CHIRIS LTD.**

3 DRAPERS GARDENS,  
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### LA SOCIETE LES PRODUITS AROMATIQUES PARISIENS

Require for each country a general agent well introduced amongst Perfumers, liqueur manufacturers and confectioners

For the Sale of all kinds of

### ESSENCES—EXTRACTS—TINTS

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PERFUMERS, SOAP MAKERS, etc.,  
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 MAKERS, etc.

Send enquiries to :

"SOCIETE DES PRODUITS AROMATIQUES PARISIENS"

38 Rue Saint Denis, ASNIERES (Seine), FRANCE.

## ROWLAND'S MACASSAR OIL

*A line it pays to stock.*

P. A. T. A. 3/6, 7/-, 10/6.

THROUGH ALL WHOLESALERS.

**A. Rowland & Sons, Ltd.**  
 112 GUILFORD STREET, LONDON, W.C.1.







### "WHITE CROSS" BABY POWDER

An antiseptic, highly emollient, very finely milled Baby Powder—a great favourite with the Nursing Profession. Put up in decorated tins with sprinkler top, and packed in smart counter display show outers.

Selling price 10½d. tin  
(P.A.T.A.).

## We cordially invite you to visit our **STANDS Nos. A44-45-46** AT THE **BRITISH INDUSTRIES FAIR** **SHEPHERD'S BUSH**

where we shall be showing a complete range of our products.

Cussons' Lines keep the cash desk of the pharmacy busy and carry with them the proud knowledge that the money made on them so quickly is well-earned and that the customer has exchanged it for perfect service and complete satisfaction.

*Cussons' goods show the Pharmacist  
a profit of 33⅓ to 40% on selling price.*

### KERVALLI BRILLIANTINE DE LUXE



PUT UP IN  
GLASS JAR  
EACH  
WRAPPED IN  
CELLOPHANE

A superfine  
preparation  
which is in  
great demand.

SELLS AT  
1/-

## Cussons Sons & Co. Ltd.

Kersal Vale Works, Manchester.

London Offices and Showrooms:  
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W.C.1

### "MISTS OF THE MOON" PERFUME en suite

A recent CUSSONS' creation evolved to meet the long-felt requirement for an attractive high-class series, exquisitely packed, at prices low enough to ensure a popular demand.

PERFUME, DAY OR NIGHT CREAM,  
POUDRE COMPACT, LIP STICK,  
BATH CRYSTALS, TALCUM POWDER,  
COMPRESSED BATH CRYSTALS, COFFRETS,  
TOILET SOAP, in 3 tab. boxes.



**BEAUTY COFFRET** (Miniature size), as illustration, containing Perfume, Vanishing Cream, and Poudre Compact (full size), complete with puff. 1/6 per case.



# A Name that Merit has made Famous

## "HARLENE" HAIR-DRILL"

THE extensive and intensive advertising campaign constantly running in connection with "Harlene" still continues and will still continue to draw immense response from all over the country. Thousands of Free Trial Gift Parcels are dispatched to new applicants every day, thus increasing the already colossal retail business.

*Do you stock the following "Quick Sellers"?*

- |                          |                          |
|--------------------------|--------------------------|
| "Harlene" for the Hair   | "Astine" Vanishing Cream |
| "Uzon" Brilliantine      | "Astine" Tooth Cream     |
| "Cremex" Shampoo Powders | "Astine" Shaving Stick   |
| "Astol" for Grey Hair    | "Astine" Nail Cream      |

## TWO ENTIRELY NEW LINES!

### "HARLENE" Cleansing and Revivifying HAIR-FIXER (for Gentlemen)

This entirely new preparation, the need for which has long been felt by Men, has been specially prepared to keep the hair bright-looking and healthy, and, while preventing dryness or stickiness, will "set" the hair in the morning and so keep it in position that it will remain during the whole day literally "without turning a hair."

### "HARLENE" "WAVE-SETTING" LOTION (for Ladies)

In order to retain the beautiful and alluring waves created by the "Harlene" Hair Waver for a long time against the ravages of Fog, Mist, Damp, etc., a wonderful new Wave-Setting Lotion, specially prepared for Ladies, has been introduced. A little of this preparation should be brushed into or sprayed on to the hair just before waving. The waves will then last twice as long.

Price of both of above	{	Advertised (Minimum Retail)	1/3 per bottle.
		Makers	13/4 per dozen.
		Less 20% Discount.	

**PLACE YOUR  
ORDER TO-DAY**

*For Full Particulars, Terms, etc., write to:—*

**EDWARDS' HARLENE LTD.**

20, 22, 24, 26 LAMB'S CONDUIT  
STREET - LONDON, W.C.1.

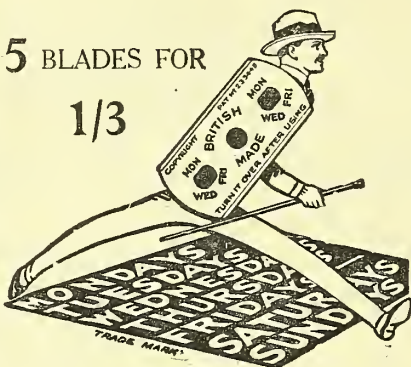




# The Demand for Myatt Daymarked Blades is Insistent

5 BLADES FOR

1/3

MADE IN  
ENGLAND

by

W. J. MYATT & Co., Ltd.  
Graham Street, BIRMINGHAM

More and more Chemists are selling the All-British Myatt Blade—the only Safety Razor Blade in the world with the unique daymarked feature.

Myatt Blades are advertised in national and local papers; turnover is rapid and the percentage of profit is 33 $\frac{1}{3}$ %. Order direct from your wholesaler. Display material supplied on request.

## MYATT

Patent Daymarked Safety Razor

## BLADES

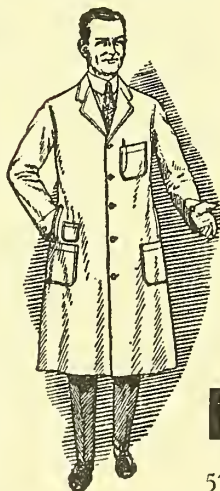
(For Gillette Type Razors only)

WE SPECIALISE IN

## OVERALLS

FOR

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(EVERY GARMENT  
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White Drill Jackets from 6/6

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LARGE VARIETY of STYLES  
and SIZES Always in Stock  
for Immediate Wear.ANY STYLE OF GARMENT  
MADE TO ORDER.*Illustrated Catalogue Free  
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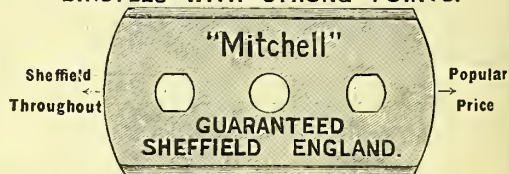
## BREWSTERS

(FORMERLY PECKS)

53 & 55 BYROM STREET,  
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SPECIAL QUOTATIONS for LARGE QUANTITIES

BRISTLES WITH STRONG POINTS.



Lasts Longer Wonderful Edge Every Blade Guaranteed

### THE "MITCHELL" BLADE

1/6 (Made in Gillette and Autostrop Patterns) 3/-

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6 doz  
12x12  
Ass'd Patts.  
**21/-** CARR  
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## "LAUREL" SAFETY RAZOR BLADES.

ALSO  
AUTO-  
STROP  
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TRADE  
WITHIN  
THE  
EMPIRE

Retails at a less price than any on the Market.  
Satisfaction Guaranteed. Send for free samples.

Manufactured by  
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Phone: 1071 Cent.

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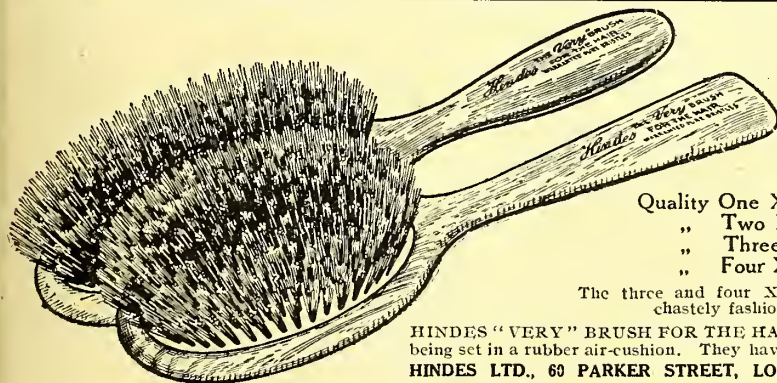
## SYNTHETIC OTTOS

VERY ECONOMICAL ON ACCOUNT  
OF THEIR STRENGTH

*Suitable for all Toilet Preparations*

	Per oz.		Per oz.
CARNATION	7/6	MELOTA	10/6
HYACINTH	7/6	ORANGE BLOSSOM	7/8
JASMIN	9/-	ROSE	12/6
LILY OF THE VALLEY	7/6	SWEET PEA	12/-
		PARMA VIOLET	10/6

**E. H. BUTLER & SON** MANUFACTURING  
CHEMISTS  
Humberstone Gate - - LEICESTER



## HINDES "VERY" HAIR BRUSH

Quality One X	Sold at 7/6d. each.	TRADE PRICE 33 1/3%
" Two XX	" 10/6d. "	
" Three XXX	" 15/- "	
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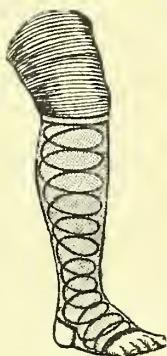
The three and four XXXX grade is made in Ebony or Rosewood  
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HINDES "VERY" BRUSH FOR THE HAIR is guaranteed pure bristles, the multiple tufts  
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HINDES LTD., 60 PARKER STREET, LONDON, W.C.2. :: Works: BIRMINGHAM



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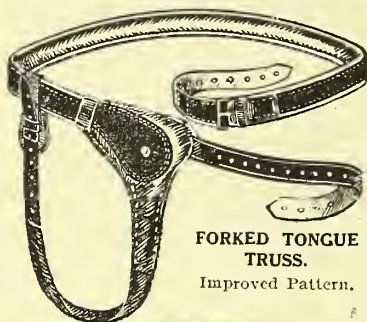


## CRÈPE VELPEAU BANDAGES

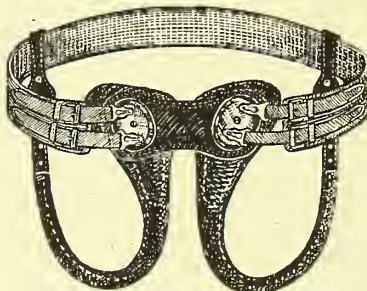
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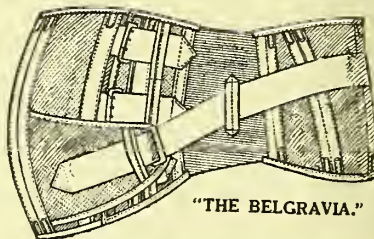
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TRUSS.  
Improved Pattern.



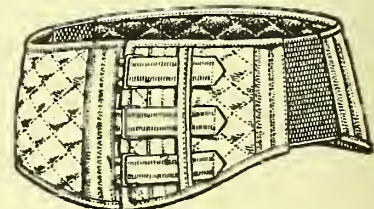
DOUBLE SCROTAL ELASTIC TRUSS.

ALL  
QUALITIES.

## ABDOMINAL BELTS ABDOMINAL SUPPORTS WOVEN ELASTIC CORSETS SUSPENSORY BANDAGES



"THE BELGRAVIA."



"THE LUMBAGO."

MANUFACTURED ON THE PREMISES AT CROWN ROAD WORKS.

THE R. H. HEWARD CO., SURGICAL APPLIANCE MANUFACTURERS TWICKENHAM.

## ENEMAS PESSARIES

and all Surgical Rubber Goods.

Sole Proprietors of "EVE" Brand.

Rubber Mats, Hot Water Bottles.

X-L RUBBER CO., Altrincham, Cheshire.

Enquiries Invited  
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India Rubber Manufacturers,

Surgical, Chemical, Domestic Articles, Syringes,  
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NOTICE.—Several instances of the sale of VENUS BRAND goods other than their make having been brought to the notice of Joseph Harris & Co., their Solicitors are instructed to take proceedings against anyone (Makers or Vendors) fraudulently using the name or design of VENUS or any imitation thereof in connection with Seamless Moulded Goods.

SEAMLESS MOULDED SURGICAL GOODS, PESSARIES, HOT WATER  
BOTTLES, URINALS FOR NIGHT OR DAY USE. Wholesale & Export Only.

JOSEPH HARRIS & CO., Rubber Works, Broadheath, Altrincham.



When ordering  
**SURGICAL DRESSINGS**  
specify

**"WARDLE"**

—the name that stands for  
**super-quality**

(Wholesale and Export only)

*The Wardle Range includes:*

Absorbent Lint, Boric Lint,  
Bandages, Gauzes, Gauze  
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Wool, Grey Wools, Capsicum  
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Dental Gauzes and Napkins,  
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Bleachers of Bandage Cloths, Gauzes,  
to the Trade. Also Absorbent Cotton.

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*Spinners and Manufacturers from the raw materials to the finished product*

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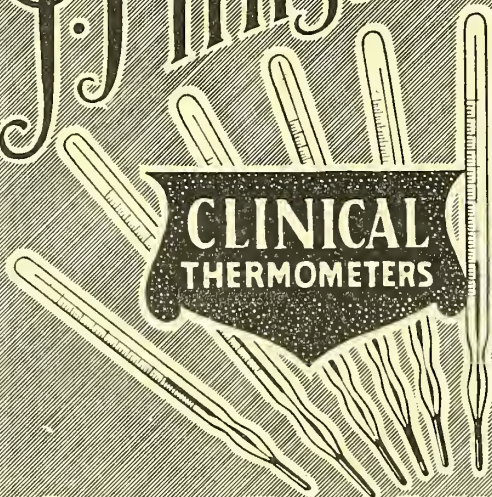


THESE ALL-RUBBER SOOTHERS ARE MADE OF FINEST RUBBER BY A PATENT PROCESS. THEY ARE PACKED EACH IN A DUST-PROOF CARTON, AND THE ATTRACTIVE OUTER MAKES AN EFFECTIVE DISPLAY.

ASK YOUR WHOLESALE FOR  
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Ask for Simplic British Branded Goods—Teats, Enemas, Whirling Sprays, Adults' Springless Trusses, &c. *Simplic Spells Satisfaction.*

# J. Pillischer.

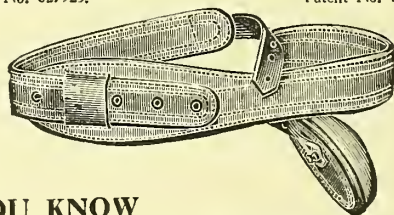


88, New Bond St.,  
London, W.1.  
*Established 1843*

## The "Hernicura" "COMFORTABLE"

Reg. No. 627925.

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### YOU KNOW

how often you have trouble in fitting customers with trusses, and how frequently dissatisfaction is expressed.

### TRY

the "Hernicura" Trusses. They are easy to fit, possess great adaptability, give absolute satisfaction, and yet are most reasonable in price.

A 33 inch Truss will adjust from 30 to 36 inches.  
Head is also adjustable.

Write for Price List.

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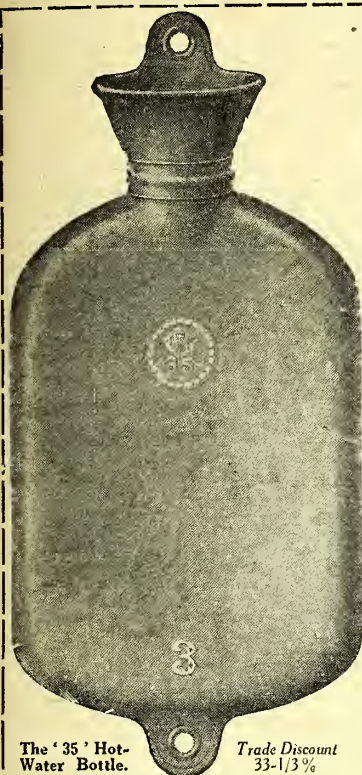
**MORGAN-DAVIS & SONS LTD.**

Truss and Surgical Appliance Makers

276-278 BISHOPSGATE, E.C.2.

Phone:  
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The '35' Hot-Water Bottle.

Trade Discount  
33-1/3%

Size 2 retails at 7/6 each.  
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# The GOODRICH

## HOT-WATER BOTTLE '35'

The Pièce-de-Résistance of the Goodrich Line. A red rubber bottle moulded by hydraulic pressure in one piece without seams. Diffuses heat steadily and lastingly. Branded with the *Manufacturers'* name and carrying the Goodrich guarantee. A wonderful value to retail at a popular price.

## Goodrich Fountain Syringe and Combination Syringe

Assembled with heavy walls, flush flow smooth tubing, shut off, and three genuine hard rubber threaded pipes.

FOUNTAIN SYRINGE.

Size 2 (quart) retails at 10/- each. Size 3 (quart) retails at 10/9 each.

COMBINATION SYRINGE.

Size 2 retails at 12/6 each. Size 3 retails at 13/3 each. Trade discount 33-1/3%

*Distributors to Wholesale Trade—*

**H. C. NORTH & CO. LTD.**

**42 Southwark St., London, S.E.1**

*Chemists can obtain supplies through their sundry House.*

**“Wimaco” Specialities, British and Best.**

**Sole Agents for ANTISEMAL, send for Descriptive Booklet**

INSIST ON WIMACO MONARCH SEAL BRAND (Regd.). THERE IS NO SUBSTITUTE FOR WIMACO.

**WINCHESTER MANUFACTURING CO., LTD., ISLEWORTH, MIDDLESEX**



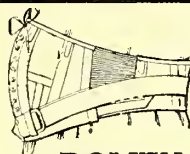
MADE IN  
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### The SETSNUG (Regd.) SANITARY BELT for LADIES

Costs you 12/6 per dozen. Sells at 1/6 each.

*Sole Makers:*

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SINGLE BELT SUPPLIED.

All sizes in stock ready for delivery per return. List and Terms on application. Catalogues supplied free for distribution.

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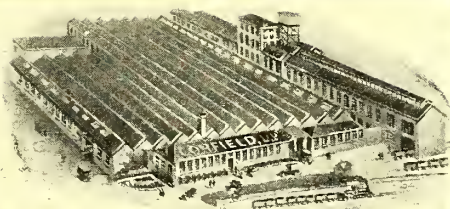
**Hot-Water Bottles, Bottle Caps,  
Face Cream Containers, Shaving  
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Made in the largest factory devoted to the  
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# For SUN, DUST, WIND & GLARE



ONE OF THE MANY NEW  
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## Willson Goggles

Containing 12 Pairs of High Grade  
Goggles with assorted Fieuzal,  
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Look for  
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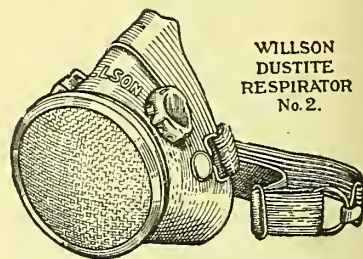


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WILLSON  
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For Dusty Work and Spraying.

WILLSON DUSTITE  
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Dry Filter Model with 2 Relief  
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Protection with Comfortable  
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*First  
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HANDSOME 3-COLOURED ENAMELLED TIN.  
P.A.T.A.—1/6..12/- per doz.; 3/6..28/- per doz.  
SOLD EVERYWHERE. Manufactured by  
**LOFTHOUSE & SALTMER Ltd., HULL.**

BUY YOUR

**BOTTLES, JARS,  
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PLAIN, CORKED & CAPPED

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**VACUUM FLASKS**

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**RAW CATGUT**

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Please address Enquiries to Sole Export Agent:—

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# H. GORDON (LONDON), LTD.

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DRUGGISTS' SUNDRIES & SURGICAL RUBBER GOODS

WHOLESALE AND EXPORT ONLY.

Specialities: "GORDO" SOOTHERS IN EVERY STYLE

CARDED 1, 2 and 3 DOZENS.



TRADE MARK

"GORDONIA" ALL RUBBER SOOTHERS

EACH IN CARTON.

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BOTTLE, TEAT, VALVE AND BRUSH COMPLETE IN BOX.

QUALITY UNSURPASSED.

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Over a million

Norvic Crêpe Bandages are sold every year, worn as the recognised preventive and remedy for varicose veins.

Hygienic, rubberless and washable, they are world-wide in their use. "Flesh-Colour," practically invisible under silk stockings, are universally popular with ladies.

Made in 2, 2½, 3, 3½ and 4 in. widths, in neat carton, with full instructions for attachment.

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Stocked by all the leading wholesale houses.

**NORVIC**  
CRÊPE BANDAGE

Best sellers

The public is asking for **ZEAL** CLINICAL THERMOMETERS because they are:-

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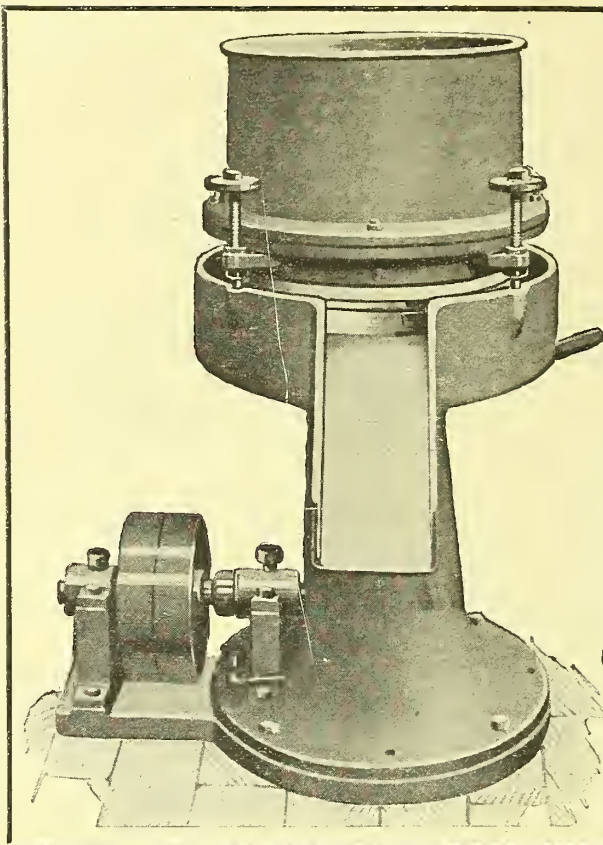
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G. H. ZEAL, LTD.,  
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**SUPER SPEEDY MILL**

THERE are now approximately 300 of S. W. WILKINSON's original Speedy Mills in use by British and other Manufacturing Chemists. A number of the new Mills are now in use and are giving much success and pleasure to the users and much credit to the designer and maker. Splendid testimonials have been received. The new Mill is the result of nearly 20 years' experience with the original Mill and the various uses to which it has been applied.

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*Chemical Engineers*

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*New Designs in Pressure Filters.  
Filling Machines for all liquids and sizes of bottles.*



## RAPID FILTERS

Latest designs for Rapid  
Filtering of Essences,  
Tinctures, Syrups, Cordials,  
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**All Sizes  
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Absolute  
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**ASBESTOS FOR  
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POWNALL SQUARE, LIVERPOOL**

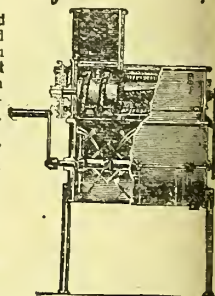
*This gives a thorough mix-up*

A Gardner "Rapid" sifter and mixer will thoroughly sift and mix  $\frac{1}{2}$  oz. of one ingredient with a 30-lb. mixture of dry powders at one operation, and "every pinch of the whole will show its presence"—a customer's statement.

Write us for list of Ball Mills, Disintegrators, Millstones and Mills, Drum Sieves, Drying Machinery, etc.

**WM. GARDNER & SONS  
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'Phone 117. 'Grams: "Gardner," Gloucester



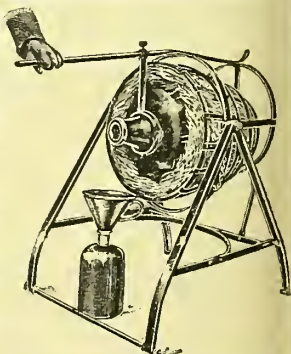
## CARBOY STAND AND TILTER.

For drawing off small quantities of acids, etc. from Carboys, with ease and safety.

The Carboy can be tipped to any position with one hand.

**R. & H. LEIGH & SONS,  
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Carboy Hammer Manufacturers,  
**BOLTON.**





*Beautiful  
Beaded  
Boxes*

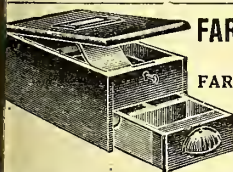


**WE** specialise in the manufacture of small round boxes.

One of the lines that is very popular is our "LITTLE JOHN" Drum (patent) which can be used for packing practically anything in powder form. It is also extremely useful for sampling purposes.

This box is made with specially beaded ends and it is impossible for the ends to fall out. Send postcard to-day for Samples and Prices.

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**FARLEY'S MIDGET CASH TILLS**

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New and Second Hand

227 Old Street, London, E.C.2



**THE**

**KWIK-SALE SHOWCASE**

Suitable for all Businesses.

**D. MATTHEWS & SON,**  
Shop Fitters and Showcase  
Manufacturers,  
14, 16 Manchester St.,  
LIVERPOOL.

Plate glass sloping front. Frameless Mirror  
sliding doors at back. Polished edge plate  
glass shelf inside. Size 3 feet long, 14 in.  
back to front at bottom. 9 in. back to front  
at top. 12 in. high.....**£5-10-0**

## SHOWCASES

UPRIGHT CENTRE CASES, WALL CASES,  
GLASS COUNTERS, MIRRORS  
WINDOW FITTINGS, GLASS SHELVES,  
SHOW STANDS, DRAWERS, DESKS  
CHECK TILLS, &c. Immense Stock.  
NEW and SECOND-HAND.

Ready for Immediate Delivery. For Sale or Hire.

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A  
**PHILIP JOSEPHS  
& SONS LTD.**

**SHOWCASE  
QUICKLY EARNS  
ITS COST**

*Try One!*

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Phone—2191 Clerkenwell. Wires—"Josiphiah London."



**HARVEY'S**

Watts' Embrocation, or Curb Bottle.  
Aconite Powders.  
Worm & Condition Powders.  
Watts' Red Lotion.  
Hair-Restoring Ointment.  
Edos, or Tasteless Purging Powder.

**HARVEY'S****Great**

*Protected Prices*  
(P. A. T. A.)

**Remedies for the Horse****HARVEY'S**

Koppos Powder.  
Parasiticide.  
Thrush Specific.  
Hoof Ointment.  
Hair Restorer (Human).

*Of all the leading Druggists' Sundries Houses*  
**HARVEY & COMPANY, Ltd., Dublin**

# Why CATALINE Pays to Stock

**BECAUSE** it enjoys the largest sale of any Cattle Medicine Preparation and is on the P.A.T.A.

**BECAUSE** it is consistently advertised and all advertisements refer to the Chemist as the source of supply.

**BECAUSE** it is well packed, does what it is advertised to do, and shows the trade a satisfactory profit.

**BECAUSE** we do not employ travellers calling on Farmers, attending sales, &c.

One size, retailed at face value, viz: 3/9 per bott.

*Cash with order terms.*

1 doz., 36/- 3 doz. at 35/6. 6 doz. at 35/- 12 doz. at 34/6 per doz.  
CARR. PAID. CASES FREE.

*Stocked by most Wholesale Houses.*

**THE CATALINE CO. BRISTOL & DUBLIN.**

**WEED KILLERS**

Specially packed for the

**Chemists' Trade**

1 to 50. 1 to 100 strengths

in all sizes 1 pint to 40 gallons.

**Powder quality**

in tins for 12½, 25, 50 and 100 gal. solution.

*Also A NEW POWDER,*

**Non-poisonous Safety WEED KILLER.  
LAWN SAND. WORM KILLERS.**

WRITE TO—

**Battle, Hayward & Bower**

**Victoria Chemical Works, LINCOLN,**

giving particulars of your requirements.

**Continuous and Steadily Advertised Goods  
FOR DESTROYING RATS AND MICE**

**DANYSZ VIRUS**

Retail Price (protected).	Net Wholesale Prices
Virus for Rats and Mice, single tube, 2/-	.. 15/- per doz.
3 tubes, 5/-	

Virus for Mice only - single tube, 1/6	.. 9/- " "
3 tubes, 3/-	

Date-expired tubes returned to us postage paid will be exchanged free of charge.

**Danzysz Virus in Liquid Form**

Retail Price.	Wholesale Price
Quart Bottles 6/- each	4/6 each
Pint " 4/6 "	3/9 "

**HALLER'S EXTRACT OF SQUILL  
and DANZO RAT KILLER**

Discount off Retail Prices 25% Monthly Account, or 33½% cash with order.

	Retail	Monthly a/c	Cash with order
½ gall. tins ..	10/-	7/6	6/8
1 " " ..	18/-	13/6	12/-
5 " " ..	80/-	60/-	53/4

**DANZO BEETLE POWDER**

For destroying Blackbeetles, Cockroaches, Crickets, &c.

Retail Prices (protected).	Wholesale prices per doz.
In tins 3d. ..	In boxes of 2 doz. 2/1
" 6d. ..	" " 1 " 3/3
" 1/- ..	" " 1 " 7/3
" 2/6 ..	" " 1 " 18/-

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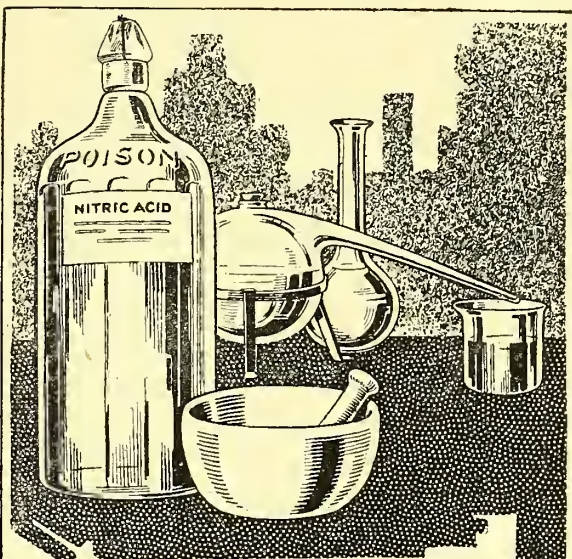
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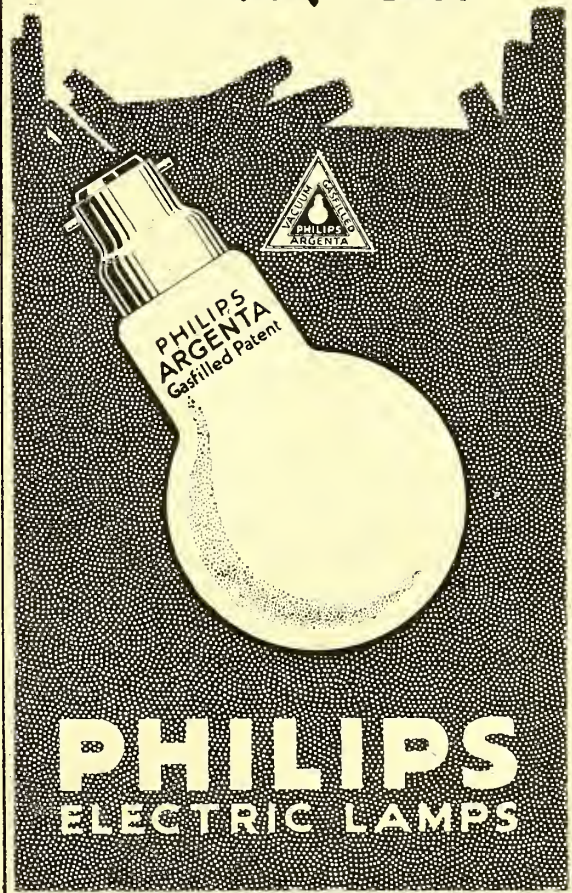
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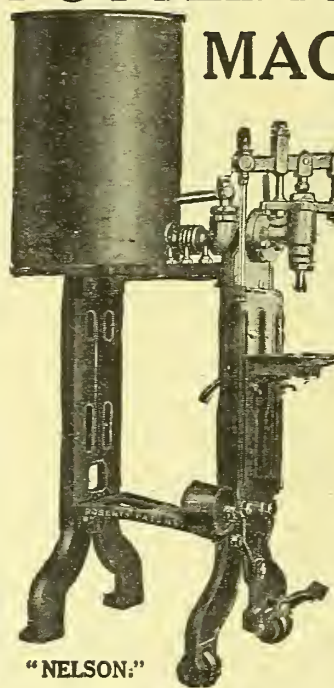
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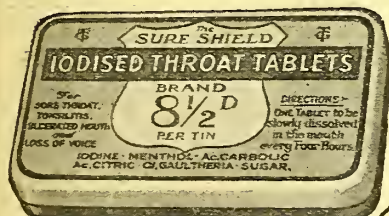
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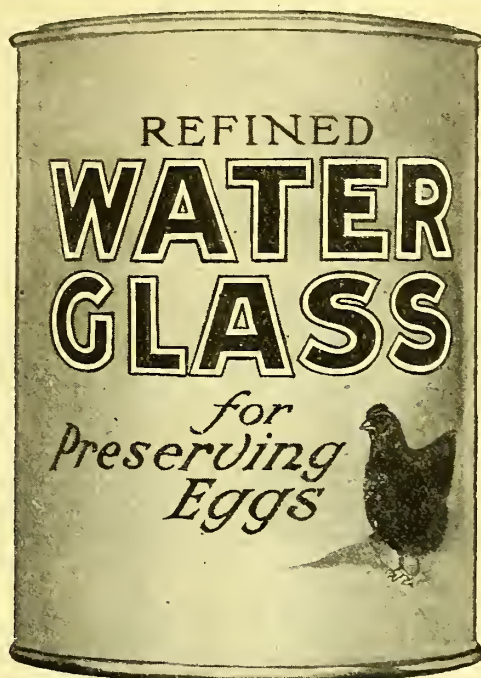
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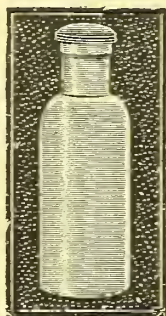
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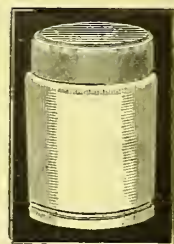
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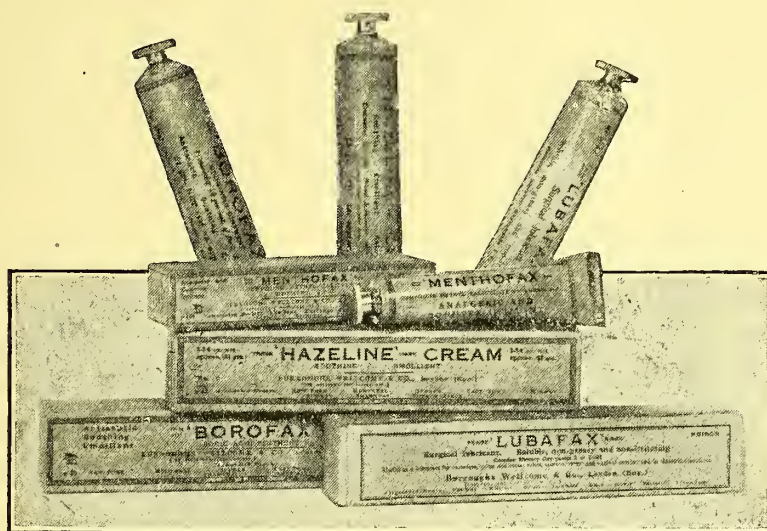
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## Coming Events

### Wednesday, March 2

Liverpool Chemists' Association and Branch of the Pharmaceutical Society, Midland Adelphi Hotel, at 7.15 p.m. Annual dinner. Tickets 10s. 6d. each.

### Thursday, March 3

Chemical Society, Burlington House, London, W.1, at 8 p.m. Scientific meeting.

London (Western) Pharmacists' Association, Portman Rooms, Baker Street, W., at 7.30 p.m. Dance. Tickets (6s. 6d., including refreshments) from the secretaries and members of the committee. Evening dress.

Pharmaceutical Society of Great Britain (Ipswich and Suffolk Branch), The Museum, High Street, Ipswich, at 8 p.m. Lantern lecture on "Commerce of Drugs," by Professor H. G. Greenish, D. ès Sc.

### Friday, March 4

Royal Institution of Great Britain, 21 Albemarle Street, London, W.1, at 9 p.m. Sir Herbert Jackson on "Some Colouring Agents in Glasses and Glazes."

BIRMINGHAM PHARMACEUTICAL ASSOCIATION AND BRANCH OF THE PHARMACEUTICAL SOCIETY.—On March 9, a branch meeting will be held at 3 p.m., and the Association dinner at 7 p.m. Tickets for the dinner, 8s. each. Evening dress optional.

BUBBLES SOCIAL CLUB (A. & P. Pears, Ltd.).—A dance will be held at the Hotel Great Central, London, W., on March 10, at 7 p.m.

## English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

### The Royal Society

The President and Council of the Royal Society have decided to recommend for election to the Society the following fifteen candidates:—Professor Edward V. Appleton, Professor Thomas G. Brown, Mr. Richard H. Burne, Dr. James Chadwick, Dr. Gordon M. B. Dobson, Dr. Sebastian Ziani de Ferranti, Professor James Kendall, Professor Patrick P. Laidlaw, Professor Abercrombie A. Lawson, Dr. Joseph W. Mellor, Mr. Otto Rosenheim, Professor Meghnad Saha, Professor John S. B. Stopford, Dr. Herbert H. Thomas, and Mr. Charles M. Wenyon.

### Memorial Tablet to the late Mr. Robert Drane

On February 16, a tablet was unveiled in Cardiff as a memorial to the late Mr. Robert Drane, a chemist in business who, as is generally known to readers of THE CHEMIST AND DRUGGIST, was an enthusiastic antiquary, and possessed a valuable collection of porcelain. The top portion of the tablet is occupied by a medallion bust of Mr. Drane, with "B. 1833—D. 1914." The remainder of the inscription reads: "Here lived Robert Drane, F.L.S., naturalist, antiquary, and connoisseur. This tablet was erected to his memory by the Cardiff Naturalists' Society, which was founded in these premises in the year 1867." The ceremony of unveiling was performed by Mr. R. W. Atkinson, B.Sc., F.I.C., F.C.S., President of the Cardiff Naturalists' Society, who paid a high tribute to Mr. Drane's character and talent. Dr. D. R. Paterson, in a subsequent address, pointed out that the National Museum of Wales owes much to Mr. Drane's foresight and cultured taste. Among those present were Dr. Cyril Fox (director of the National Museum), Captain A. H. Lee (secretary of the Museum), Professor A. H. Cox, D.Sc., Professor R. C. McLean, D.Sc., Professor W. M. Tattershall, D.Sc., Mr. Frank Bird, M.Sc., and Sir W. Galloway. Mr. Alec S. Johnson (Robert Drane, Ltd.) and the Misses Johnson were the hosts of the occasion.

### Contracts

The following tenders have been accepted by the bodies named:—

Crown Agents for the Colonies.—Arthur H. Cox & Co., Ltd., Brighton, tablets for Nyasaland.

At a meeting of the Forden Guardians recently, during a discussion on the insertion of the usual advertisements for contracts, the chairman said that on the last occasion when contracts were considered, one or two of the persons who tendered disdained to state what country their goods came from, although in the advertisement it was stated that preference would be given to Empire goods. He suggested that it would be advisable to put into the new advertisements that tenders which did not specify the country of origin would not be considered. It was decided to insert a clause on the lines suggested.

### Birmingham

Needham's, Ltd., chemists, have opened a branch in the Yardley Wood Road.

The Birmingham Section of the British Industries Fair was opened at Castle Bromwich on February 21, and will remain open until March 4.

Among the recent contributors to the special appeal fund of the Maternity Hospital are Southall Brothers & Barclay, Ltd., £25; Canning & Co., Ltd., £5 5s.; and Mr. H. S. Shorthouse, £8.

### Liverpool

Miss J. Y. Stephenson has been appointed to fill the post rendered vacant on the South-West Lancashire and Cheshire Joint (Prescription) Committee by the resignation of Miss Jessie Oliphant.

The Tennis Section of the Pharmacists' Club held their annual meeting on February 18, Mr. F. B. Derrick presiding. Mr. W. Murphy was elected captain; Mr. J. Durdan, vice-captain; Mr. F. G. Lloyd, secretary;



and Mr. J. T. Lowe, treasurer. The Misses Dodd and Hunter were appointed members of the committee.

What may be described as an "influenza window" is on view at the Lord Street shop of Thompson & Capper, Ltd. There are displayed a card stating that the Ministry of Health has issued a notice advising everyone to gargle night and morning with a solution of potassium permanganate; bottles of the solution; packets of menthol and eucalyptus antiseptic pastilles; and also of "Quinphos."

Among the passengers on board the "Carmania," which left Liverpool on February 19, were Mr. G. I. Akeroyd, sales manager, Mr. W. Lee, territorial general manager, and Mr. C. L. Saul, manager of the estates department, Boots Pure Drug Co., Ltd., Nottingham. They are paying an extended visit to the United States for business purposes, and it is the intention of Mr. Akeroyd and Mr. Saul to travel as far as the Pacific.

As a result of a meeting at the Royal Institution, Colquitt Street, on February 17, the Liverpool and district branches of the Pharmaceutical Society promised £40 towards the Parliamentary Fund, and this amount is likely to be increased. Mr. J. L. Hirst, President of the Liverpool Chemists' Association, presided, and the chief speakers were Messrs. Hardy, Kenningham, and Keall, who pointed out the advantages that would accrue if pharmacists were represented in Parliament, and said that two or more representatives were necessary. A discussion followed, amongst those who spoke being Messrs. Humphreys Jones, Lomax, and Woolwich.

### Manchester

At Manchester City Police Court, on February 16, Mr. F. Ashworth, chemist and druggist, Princess Road, Moss Side, was fined 10s., with £2 2s. costs, for having sold glycerin of borax found to be deficient in borax to the extent of 30 per cent.

At Manchester City Police Court, on February 17, Basil A. Constantimides (31) was remanded on a charge of attempting to murder Michael O'Dea by putting corrosive sublimate in cocoa. It was stated for the prosecution that a packet of cocoa resembling a sample packet was left at O'Dea's house, and that on a beverage being prepared from it the spoon became black and the liquid tasted bitter. A bottle containing mercuric chloride tablets was subsequently found in a coat belonging to the accused.

### Sheffield

Among the influenza patients are Mr. J. F. Medley and his son.

The medical officer reports more favourably on the outbreak of small-pox.

The many friends of Dr. Bown will be pleased to hear that his health is improving.

It has been decided that an evening shall be reserved for the presentation of prizes to the local pharmaceutical students, and that an invitation be extended to their friends to be present. A gold medal is to be awarded to the first prize-winner by Newton, Chambers & Co., Ltd.

### Miscellaneous

THE WELLCOME HISTORICAL MEDICAL MUSEUM, 54A Wigmore Street, London, W.1, will be closed from February 28 to March 14.

**BURGLARY.**—The premises of Mr. Louis J. Stambois, Charterhouse Buildings, London, E.C., were broken into on February 17; razor blades and other goods were stolen.

**PROPOSED SHOPPING FESTIVALS.**—Poulton-le-Fylde Traders' Association intend to arrange a local shopping week shortly. Accrington, Burnley and Blackburn Chambers of Trade have similar objects in view.

**IDEAL HOME EXHIBITION.**—The eleventh "Daily Mail" Ideal Home Exhibition will be opened at Olympia, London, W.14, on March 1, and will remain open till March 26. The public will be admitted daily from 10 a.m. to 10 p.m., except on the first day, when the doors will be opened at 2 p.m.

**LONG SERVICE AWARDS.**—On February 18, Brunner, Mond & Co., Ltd., chemical manufacturers, presented 36 gold medals, 123 gold watches and 133 silver watches to employees at Northwich with forty, thirty-five, and twenty-five years' service respectively. Up to date, 240 men have completed forty years' service and 768 thirty-five years.

**IN THE COURTS.**—At Marylebone Police Court, London, recently, Charles William Rushton, Praed Street, W.2, was bound over and ordered to pay £5 5s. costs on a summons for having practised dentistry while he was unregistered.—At Mortlake Police Court, on February 21, James A. Cox was remanded on a charge of breaking into the pharmacy of Mr. A. T. Gray, High Street, Barnes, and stealing goods valued at £16 5s.—At Marlborough Street Police Court, London, on February 23, William B. Braumun was sentenced to three months' imprisonment for stealing, *inter alia*, sundries worth £15 from the shop of Mr. D. G. Evans, chemist and druggist, Jermyn Street, S.W.

**WINE-LICENCE APPLICATIONS.**—Among the applications for wine off-licences at the recent Brewster Sessions, those of the following chemists have been granted: Timothy White Co., Ltd., Reading; Mr. C. W. Thornton, Ossett.—At Seaham Harbour Brewster Sessions, recently, the Bench decided to remove the restrictions regarding the sale of medicated wines under licences held by Mr. A. Grant, chemist and druggist, Dawdon, and Mr. W. Forster, Ph.C., Dawdon. New wine off-licences without restrictions were granted to Mr. A. E. G. Simpson, chemist and druggist (Taylors' Drug Co., Ltd.), Seaham Harbour, and to Mrs. Porter, Murton.

## Scottish News

### Brevities

Mr. J. W. Barclay, chemist and druggist, Cowdenbeath, gave an address on "Drug Addiction" at a recent meeting of the local Rotary Club.

At Greenock Sheriff Court, on February 21, John Glancey, a chemist's assistant, was sent to prison for three months with hard labour on pleading guilty to five charges of stealing cocaine from various shops where he had been employed.

It is proposed to hold the annual competition for the Scottish Chemists' golf trophy over Gleneagles on May 11. The arrangements this year are in the hands of the Edinburgh committee, with Mr. James Finlay, 302 Morningside Road, as secretary. Full particulars will be available shortly.

### Edinburgh

Duncan, Flockhart & Co. have subscribed £5 5s. to the Scottish National Memorial to David Livingstone.

At Edinburgh Sheriff Court, on February 19, a Chinaman, Ching Cheung, was fined £2 under the Dangerous Drugs Acts for being in possession of opium.

An Edinburgh correspondent sends us a copy of an Insurance prescription for *ferri et quin. cit. 3ij*. The patient had been directed to dissolve this in a gill bottle of water and take two teaspoonfuls for a dose.

At a meeting of the Edinburgh University Court, on February 21, it was announced that a sum of £15,000 has been offered, supplementary to previous gifts, in order to enable the University to carry out a projected scheme for providing a residential house for men students.

### Glasgow

The rambling section of the Glasgow Pharmacy Club will visit the Central Fire Station on March 1. The meeting-place is the Scott Monument, George Square, at 3 p.m.

Mr. Harvey P. Arthur, chairman of the Glasgow and South-Western Scottish Branch of the Pharmaceutical Society and vice-chairman of the North British Executive, has been elected President of the Queen's Park Bowling and Tennis Club, which this year celebrates its diamond jubilee.



## Irish News

### Brevities

"Death from an irritant poison, self-administered," was the verdict at an inquest on Agnes McCandles (18), Derry-keighan, Dervock, held by the North Antrim Coroner. It was stated that deceased had asked her younger sister to buy rat poison.

The Secretary reported at a meeting of Derry Education Committee that about 1,040 children had been passed for emulsion. The supply to each child of two teaspoonsful per day for ten weeks would cost £52. In this year's scheme £60 had been allocated to cover the supplies and fees for medical examiners.

Much sympathy is felt locally for Mr. Ernest D. Moran, associate druggist and Peace Commissioner, Clifden, co. Galway, on the death of his eldest brother, the Rev. Thomas Moran Cobb (Queenstown), chaplain for the past twenty-five years to the Naval and Military Forces in Cork Harbour and Berehaven.

Official trade returns for the Irish Free State show that the imports of drugs and chemicals, etc., for 1925 were valued at £1,079,012, and for 1926 £1,128,970. Exports for the same periods were £2,062 and £1,908 respectively. For December the imports of drugs, etc., were valued at £76,525 for the month, against £72,051 for the same month in 1925.

When Bridget Cowell was charged at Ballina with having a bottle of poteen in her possession, she pleaded that she got the liquor to send to her daughter in Scotland as a liniment. Mr. Guy, D.J., said he believed the woman's story, adding that many people in the West had a pathetic faith in the curative powers of poteen. He imposed the lowest possible fine, £12.

The "mixed trading" section of the Free State Intoxicating Liquor Bill, the text of which is just available, curtails the hours during which what is known as "mixed trading" can be carried on in licensed premises. The Bill provides for the reduction and abolition of licensed premises and the compensation for such abolition. It also provides that the Revenue Commissioners may refuse to grant a renewal of an existing licence, a wine retailer's off-licence to any person other than a person who is for the time being the holder of a spirit retailer's "off" licence, or a beer retailer's "off" licence then in force. This clause would affect chemists, of whom a number hold wine licences.

### Belfast

Further evidence was heard at Belfast Police Court, on February 9, in the case in which Edward O'Donnell is charged with breaking into the premises of Mr. Joseph Moffet, R.D., hon. secretary of the Chemists' and Druggists' Society of Ireland, at 225 Donegall Road. Accused was joined by two more prisoners, Nicholas Gallagher and Jas. Ward, who were similarly charged, all of whom were remanded for a week (*C. & D.*, February 5, p. 159).

At Belfast Police Court, on February 16, Edward C'Donnell, Nicholas Gallagher, and James J. Ward were charged with breaking and entering No. 225 Donegall Road on December 17 and stealing a safe, £39 in money, a watch, a pair of spectacles, and a number of platinum pins, the property of Joseph Moffet, R.D. They were also charged with stealing £530 in money, postal orders, etc., the property of the Postmaster-General. Accused were committed to the Assizes (*C. & D.*, February 5, p. 159).

The Ministry of Home Affairs for Northern Ireland has written the Public Health Committee of Belfast Corporation intimating that on several occasions recently reference has been made in the Press to the increase in the use of certain cheap wines. In some cases a deleterious effect may be due to the purchaser mixing methylated or other spirit with the wine after purchase, but it was possible that the wine had been adulterated with deleterious substances before sale. The Ministry therefore desired the Inspectors to have frequent analyses made of these wines.

### Dublin

May, Roberts & Co., Ltd., 16 Westmorland Street, Dublin, have issued a new catalogue of proprietary articles, drugs, druggists' sundries, photographic goods and packed drugs, which brings up to date the special catalogue for use in the Irish Free State.

The new branch of Hayes, Conyngham & Robinson, Ltd., which has recently been opened (*C. & D.*, February 5, p. 159), is one of a series of shops, constructed under the new Post Office Buildings, which is being erected on the site of the old Post Office destroyed in May 1916. The shop is 50 feet long and nearly 25 feet wide, with lofty ceiling, the decoration of which is carried out in a very artistic and striking manner. The shop fittings are in polished oak with all-glass floor cases. The work, including frontage, has been effectively carried out by E. Pollard & Co., London. Another large new branch will shortly be opened by the company at 49 Talbot Street. This branch will follow the old style of chemist's shop, and has been fitted out in mahogany by Philip Josephs & Sons, Ltd., London, E.C.

## French News

From the "C. & D." Paris Correspondent.

THE PREMISES OF *BOURJOIS ET CIE*, perfumers, at Pantin (just outside Paris), were recently entered by burglars, who broke open a safe and carried off the 80,000 francs which had been drawn from the bank to pay the workmen.

PERFUMERS COMPLAIN.—M. de Margerie, head of the administration of direct taxation, received a deputation from the French perfumery trade which, through M. Nicolas, chairman of the Perfumers' Association, drew attention to the serious effect of the application of the law of April 5, 1926, which laid an unduly heavy tax on articles of perfumery in daily use among those of moderate means, such as eau de Cologne, etc. The basic rates, he suggested, might be reduced in the case of a number of these articles, which could not nowadays be classed as luxuries.

THE ANNUAL DISTRIBUTION OF THE PRIZES awarded by the Faculty of Pharmacy of Paris was presided over by Professor Radais, Dean of the Faculty. He made allusion to the recent decease of M. Lafay, who left money to found two new prizes. In addition to the official prizes, the "Société des Pharmaciens Agréés près de la Faculté de Paris" offers books to the students who have passed the "validation" and preparatory examinations with honours. There were nine recipients.

MR. A. W. B. SCOTT, 38 rue du Mont-Thabor, Paris, has recently turned his business into a limited company, his partners being his two sons, Mr. Henri B. Scott and Mr. Frank B. Scott, who both obtained the French pharmaceutical diploma at the Paris Faculty of Pharmacy a year or so ago. The wholesale branch of this possibly unique establishment was started some twenty-eight years ago by Mr. Scott, sen., who, although he never actually kept open shop in Great Britain, is a qualified chemist and druggist. He came over to Paris, took a flat, and stocked one of the cupboards with imported English and American medicines. The business prospered until the flat became quite insufficient, and he rented an unused stable (such as existed at the back of the courtyard in most of the old houses in Paris) as a warehouse. Further developments decided him to take a portion of the upper floors at the rear of the same building, and here in 1914 he opened the "first-floor pharmacy" for retail business described in the *C. & D.*, I, 1914, index folio 326, which is still a feature of the establishment. The importation of foreign proprietaries, formerly prohibited, was, however, tolerated by the French Government in the interests of tourists, and the carrying on of a wholesale business in these lines was a delicate matter requiring much business tact. British articles largely predominate, although quite a number of first-class American products are also handled. Besides the Mont-Thabor premises, Scott & Co. have a large establishment, employing nearly a hundred hands, at Neuilly.



## Colonial and Foreign News

**MARKING PRICES ON SPECIALITIES IN POLAND.**—The Polish regulations dealing with proprietary pharmaceutical preparations (*C. & D.*, 1926, II, p. 743) stipulate that the retail price of the article, in Polish currency, must be stated on the label. In consequence of representations made by manufacturers of pharmaceutical specialities and agents of foreign firms, and also in view of imminent changes in the charges laid down in the official drug tariff, the Department of Health has decided to postpone the enforcement of this requirement until May 19, 1927.



*Illustrierte Zeitung*

[Leipzig]

INTERIOR OF A CHINESE PHARMACY  
The second from the left is the proprietor.

**RUSSIAN IODINE.**—The experimental factory recently erected in Baku to extract iodine from the water of the oil springs reports satisfactory progress with the new method of separating out the naphthenic acids. In September 50, and in October 90, kilos of crude iodine was produced by this process. New plant is to be laid down, which will reduce the cost of production from the present figure of about 70 roubles to approximately 20 roubles a kilo. Provision is being made for the annual production of 400 tons of iodine by the Baku factory.

**FEEDING BOTTLES FOR ITALY.**—The text of an Italian decree-law has been issued which prohibits the importation into Italy, as well as the manufacture and sale in the kingdom, of feeding bottles with tubes, including the detached parts of feeding bottles of this kind, and of teats not made of solid rubber. Vulcanised rubber used in the manufacture of nipples, teething rings, teats, etc., may not contain lead, zinc, antimony, arsenic, or other injurious substance, and all these articles must bear an indelible factory mark. The sale of goods of this description not complying with the above requirements is allowed until May 14.

**MANUFACTURE OF COSMETICS IN CHINA.**—The Tientsin market used to consume cosmetics imported from Japan or those made by Shanghai manufacturers. During the past ten years, however, about a dozen local manufacturing concerns have come into existence. Among these the Sung Mou Cosmetics Factory at Tsingtao is the largest, its output consisting chiefly of creams, hair lotions, etc. Tientsin manufacturers obtain the bulk of their raw materials in China, with the exception of essences, which are imported from Germany, France and England. Bottles are turned out by the local glass blowers, of whom there are three in Tientsin.

**ALCOHOL FOR THE MANUFACTURE OF BIOLOGICAL PRODUCTS.**—The Italian Minister of Finance has decided that pure alcohol, denatured by the addition of 10 litres of commercially pure methyl alcohol to every 100 litres of alcohol, shall be supplied at the reduced price in force for industrial spirit to manufacturers of serums, vaccines, and other organotherapeutic preparations. Should this alcohol in the process of manufacture be recovered by

distillation, a sample must be submitted to the chemical laboratory of the Customs and Excise, in order to establish the amount of methyl alcohol to be added to complete the proportion of this denaturant required to be present.

**FIJI DRUGS AND POISONS ORDINANCE.**—An Ordinance (No. 19 of 1926), entitled the Drugs and Poisons Ordinance, 1926, provides for the control in Fiji of the sale of drugs and poisons and for the manufacture, import and export of raw and prepared opium and various other drugs and preparations of a similar nature. Schedule C to the Ordinance contains a list, which may be added to at the discretion of the Governor, of certain simple medicines and household substances, such as Epsom and Glauber salts, castor oil, washing soda, and certain proprietary milk food products, etc., which may be stocked and sold by licensed storekeepers without restriction under the Ordinance.

**CONFERENCE OF CENTRAL EUROPEAN PHARMACISTS.**—At the initiative of the Organisation of Austrian Pharmacists, a meeting, the first of its kind, took place in the Apothekehaus in Vienna, on January 22-23, of delegates from the pharmaceutical associations of Austria, Czechoslovakia, Germany, Hungary, and Yugoslavia. Owing to a series of misunderstandings, Bulgaria, Poland, Rumania, and Switzerland were not represented at this conference, the object of which was to promote an exchange of views among Central European pharmacists on a number of questions of a practical nature, such as the traffic in pharmaceutical specialities, limitation of the sale of all medicaments exclusively to pharmacies, including supplies to members of sick clubs, and the necessity of aiming at uniformity in the pharmacopoeias of the Central European countries. Resolutions dealing with these four subjects were carried unanimously; that the traffic in pharmaceutical specialities demands a uniform definition of the term "medicinal speciality," as well as the drawing up of lists of permitted preparations, and urges that the whole subject should be regulated on an international basis.



*Illustrierte Zeitung*

[Leipzig]

A CHINESE PHARMACY IN SHANGHAI.—The proprietor, Mr. Wan Chung Yuan Yah Poo (standing in the doorway), distributes free medicines to the poor four times every month.

**JUBILEE OF TURKISH RED CRESCENT.**—Fifty years have elapsed since the Turkish Medical Society, founded by an English physician at the time of the Crimean War, succeeded in persuading the Grand Vizier Fuad Pasha not only to permit the creation of an "Ottoman association to help the wounded," but was also instrumental in securing Turkey's adhesion to the Geneva Red Cross Convention. One of the most influential members of the mixed commission appointed by the Grand Vizier in 1876 to organise the Red Crescent Society, which has since done so much good work in Turkey, was the well-known Fayk Pasha Della Sudda, chief pharmacist of the Turkish Army. The jubilee was recently fittingly celebrated by the medical and pharmaceutical corporations of Constantinople.



## New Companies and Company News

**P.C. means Private Company and R.O. Registered Office.**

**J. SCHOLES (CHEMISTS), LTD. (P.C.).—Capital £500.** Objects: To acquire the drug-store business of Joseph Scholes carried on at 454 Middleton Road, Chadderton, Oldham. The directors are: J. Scholes and Mrs. E. S. Scholes. R.O.: 454 Middleton Road, Chadderton, near Oldham.

**FRANCIS HILL (CHEMISTS), LTD. (P.C.).—Capital £1,000.** Objects: To carry on the business of pharmaceutical, dispensing and analytical chemists, photographic chemists, opticians, druggists, sundriesmen, drysalters, dentists, etc. The directors are: R. Solomon and H. N. French. R.O.: 165 Stanley Road, Kirkdale, Liverpool.

**HACKWOOD'S SOAP CO., LTD. (P.C.).—Capital £25,000.** Objects: To acquire the business carried on at 64 Bissell Street, Birmingham, as Hackwood's Soap Co., and to carry on the business of soap manufacturers, manufacturers, refiners and preparers of and dealers in oils and oleaginous and saponaceous substances, chemists, druggists, glycerin distillers, tallow melters, etc. Director: C. Hackwood.

**ALMAH COMPANY, LTD. (P.C.).—Capital £1,000.** Objects: To carry on the business of manufacturers of and dealers in patent medicines of all kinds, including catarrh and other cures, ointments, pills, embrocations, perfumes, dyes, hair dressings or restorers, depilatories, soaps, face creams, drugs and druggists' sundries, etc. The directors are: A. Carson and W. T. Marks. R.O.: 25 Gordon Street, Southport.

**ALSPAS, LTD. (P.C.).—Capital £500.** Objects: To acquire the trade mark "Alspa" in respect of medicated salts for human use, to manufacture and deal in salts, alkalis and acids, tinctures, balsams, extracts, tonics, fluids, gases, powders, and other chemicals, chemical products and medicinal preparations, etc. The directors are: W. S. Barry and C. H. Stringer. R.O.: 648 Salisbury House, London Wall, London, E.C.

**CROBERTS, LTD. (P.C.).—Capital £2,500.** Objects: To carry on the business of manufacturers of and dealers in chemicals, tar products, road materials, oils, rubber solutions, industrial, pharmaceutical and other preparations, wireless and general electrical and mechanical engineers, manufacturers of and dealers in electric and other apparatus, etc. The directors are: C. Roberts, A. E. Battle, and I. Binns. R.O.: 4 Vincent Street, Bradford.

**HEELANTOE (PATENTS), LTD. (P.C.).—Capital £10,750.** Objects: To acquire the registered trade mark "Heelantoe," No. 459,330, and to carry on the business of manufacturers of, agents for, and dealers in razors, razor stropps and blades, sharpening machines, razor paste, leather goods, toilet articles, patent goods, patent medicines, etc. The directors are: J. Samuels, D. Smith, F. R. Peters, and S. Hackman. R.O.: 317 High Holborn, London, W.6.

**W. CLARK (1927), LTD. (P.C.).—Capital £1,000.** Objects: To acquire the business of a manufacturer of clipping machines by motive and hand power and other machinery; and embrocations, drugs and medicines of all kinds for use in connection with horses and other animals and persons, etc., now carried on at 9 Southwick Mews, Paddington, and 55 Lonsdale Road, Kilburn, and elsewhere, as "W. Clark." The directors are: W. E. Baker and T. H. Bloxham.

**VELMIT, LTD. (P.C.).—Capital £25,000.** Objects: To carry on the business of manufacturers and vendors of a preparation for cleansing and polishing known as "Velmit," carried on by the Champion Products Co., Ltd., at 15 King Street, St. James's, and 53 Brick Street, Mayfair; to adopt an agreement with the said company for the sole right to use the trade-mark "Velmit"; and to carry on the said business and that of manufacturing and general chemists, soap manufacturers, etc. Solicitors: Harold Elwell & Co., 65 Coleman Street, London, E.C.2.

**McCoy's LABORATORIES, LTD. (P.C.).—Capital £10,000.** Objects: To adopt agreements (1) with McCoy's Laboratories Incorporate and (2) with Coleman & Co., Ltd., to turn to account the rights thereby granted and conferred, and to carry on the business of manufacturers, buyers, sellers and distributing agents of and dealers in all kinds of foods, cordials, beverages, tonics, stimulants and restoratives, pharmaceutical, medicinal and medicated foods, patent medicines, etc. The directors are: P. McCoy, C. Barton, E. C. Barnes, and E. J. Smith. R.O.: Westwick Street, Norwich.

**STANDARD ANHYDROUS AMMONIA Co., LTD. (P.C.).—Capital £92,500.** Objects: To acquire from the Standard Anhydrous Ammonia Co. of Great Britain, Ltd. (vendor company) and its liquidator, the property and assets referred to in an agreement with that company, and to carry on the business of dealers in chemical substances, chemical manufacturers and refiners, manufacturing chemists, artificial manure manufacturers and dealers, etc. The directors are: F. Lennard, R. G. Perry, S. Jackson, J. G. Nicholson, F. L. F. Lennard, and C. Page. R.O.: 37-39 King William Street, London, E.C.4.

**SULPHATE OF AMMONIA EXPORT TRADERS, LTD.—**At a meeting held in London recently, it was resolved that this company be wound up voluntarily. Mr. G. A. Black was appointed liquidator.

**BUCKNALL CHEMICAL PRODUCTS, LTD.—**At a meeting held at Stoke-on-Trent recently, it was resolved that this company be wound up voluntarily. Mr. C. V. Booth, 17 Victoria Street, London, S.W.1, was appointed liquidator.

**AMMONIUM FINANCE SYNDICATE, LTD.—**At a meeting held in London recently, it was resolved that this company be wound up voluntarily. A meeting of creditors was held at 47 Victoria Street, S.W.1, on February 3.

**DIRECT DRUGS, LTD.—**At a meeting held in London on February 16 it was resolved that this company be wound up voluntarily. Mr. A. Borrows, 2 Guildhall Chambers, Basinghall Street, E.C.2, was appointed liquidator, and a meeting of creditors will be held at the above address on March 9.

**COMPANIES WHICH MAY BE WOUND UP.—**The undermentioned companies will, unless cause is shown to the contrary, be struck off the register and the companies dissolved three months after February 11: Benzoates, Ltd.; Blackmoor Chemicals and Colours, Ltd.; Carl Zeiss (London), Ltd.; Dyestuffs, Ltd.; Metallic Chemicals, Ltd.; Sherwood Optical Co., Ltd.; Tyne Chemical Products, Ltd.

**COMPANIES DISSOLVED.—**Notice has been given in "The London Gazette" that the names of the undermentioned companies have been struck off the register and the companies dissolved: Electro Chemical Manure Co., Ltd.; Foot and Mouth Diseases Cure, Ltd.; Fosters' Drug Stores, Ltd.; H.M.S. Soap Co., Ltd.; H. R. Thompson (Cash Chemists), Ltd.; Herbarry, Ltd.; Talc, Ltd.; Twilight Sleep Nursing Homes (1921), Ltd.

## Business Changes

**WILSON & KITCHIN, LTD.,** chemists, Whitehaven, are removing their King Street branch to 34 Tangier Street.

The business of **Thomas Keating, Ltd.,** will on February 28 be removed to Station Mills, Billingshurst, Sussex. Telephone Billingshurst 74.

**Mr. T. A. DOWNING,** chemist and druggist, High Street, Leominster, has acquired the business of **Mr. H. H. Greenfield,** chemist and druggist, 9 Grand Parade, Moordown, Bournemouth.

**TIMOTHY WHITE CO., LTD.,** have recently opened a branch in Fore Street, Exeter, and will shortly open a branch at 39, Whitley Street, Reading. The company has also arranged to open new shops at Canterbury, Portsmouth and Hull, and is about to move to larger premises in Bournemouth.



## Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### ENGLAND AND WALES

#### Local Reports

**Blackburn.**—At a meeting of the Insurance Committee, held recently, a chemist on the panel forwarded a letter explaining the presentation of 500 prescriptions, dispensed in 1924, 1925 and the early part of 1926, for pricing and payment. He expressed regret for the delay, and said the prescriptions had been put away in a drawer. After a long discussion, Mr. E. Hindle said that, as it was the first offence, the case might be met by a warning, and the payment of prescriptions on a flat rate of 6d. each. The average cost in 1924 and 1925 was about 8½d. each. This was agreed to. Messrs. W. H. Grimshaw, R. L. Gifford, J.P., and W. H. Lighthown were appointed to represent pharmacists on the Pharmaceutical Services Subcommittee. During November 26,385 prescriptions were dispensed in Blackburn, at a cost of £954 15s. The value of the ingredients was £465 14s., and the dispensing fees £489. The average cost per prescription was 8.7d. During 1926 300,957 prescriptions were dispensed in Blackburn, at a cost of £10,866 11s. 4d. Commenting on the cases of alleged inaccurate dispensing which has arisen in the Lancashire County area, Councillor J. S. Snell, an official of the Blackburn Branch of the Pharmaceutical Society, states in a letter to the Press: "The report is calculated to cause some little misapprehension in the minds of patients. When one considers that over two million prescriptions are dispensed by chemists in Lancashire County area in 12 months, and that disciplinary action is only found necessary in some 80 cases during that period, it will be realised that the standard of dispensing is wonderfully high."

**Bournemouth.**—At a meeting of the Insurance Committee, held on January 24, the proposed opening of chemists' shops for the dispensing of prescriptions after closing hours on Wednesday evenings and on Sundays was referred to the Pharmaceutical Committee.

**Cambridgeshire.**—The amount paid to chemists for the fourth quarter of 1926 amounted to £471 6s. 1d.; the number of insured persons on October 1 was 47,863, against 47,031 on July 1, 1926. There were 11,029 prescriptions priced by the East Anglian Joint (Pricing of Prescriptions) Committee, value £406 2s., during the quarter ended September 30, the average cost per prescription being 8½d.

**Cardiff.**—A meeting of the Welsh Joint Insurance (Pricing) Committee was held at the City Hall recently. Mr. Llewellyn Jones was re-elected chairman of the Committee. The number of prescriptions dealt with annually by the Committee exceeds 2,000,000 at a cost of approximately £86,000, and during the year 1926 the number dealt with constituted a record. The cause of the increasing expenditure on drugs had been investigated by a subcommittee, who gave a report on the matter.

**Cornwall.**—Two cases of alleged neglect in dispensing by chemists were considered recently by the Insurance Committee. In one case it had previously been decided to censure the chemist severely, but the Ministry of Health held the view that a fine should be imposed, and it was decided that the penalty should be £3. In the other case the allegation was that the prescription showed an excess of 93.8 per cent. in the quantity of quinin sulph. and 58.6 per cent. in the quantity of acid hydrobom dil. A director of the firm stated that the dispenser had been severely reprimanded. At a second meeting the dispenser stated that the scales were afterwards found to be faulty, and he attributed the mistake to the scales. The error in dispensing the other ingredient was caused, he said, by the use of the wrong measure. The subcommittee reported that the prescription was dispensed by an unregistered person, not under the supervision of a qualified chemist, and recommended the Ministry to impose a fine. The recommendations of the subcommittee were adopted.

**Denbighshire.**—The cost of insulin for the quarter ended September 30, 1926, was £19 2s. 7½d., and scrums and vaccines £5 14s.

**Devon.**—A meeting of the Pharmaceutical Committee was held at Exeter on January 26, Mr. S. S. Brown in the chair. The audited accounts for the year ended December 31 were adopted. The resignation through ill-health of Mr. J. H. Scott (Ilfracombe) was accepted with regret, and Mr. F. E. Battershill (Barnstaple) was co-opted.

**Dudley.**—According to the annual report of the Insurance Committee, on December 31, 1926, there were on the panel 19 chemists with 37 establishments. Payments to chemists were £2,151 16s. 8d., and of this £1,971 16s. 2d. was paid to chemists in the borough and £180 0s. 6d. to outside pharmacies. During the year seven samples of drugs and appliances were taken for testing and found satisfactory.

**East Ham.**—At a meeting of the Insurance Committee, on January 26, a report was presented on the testing of drugs, and it was stated that two cases had been referred to the Ministry of Health with a view to deductions being made from the remuneration payable to the chemists concerned; in another case the chemist had been severely censured, and in three other cases the chemists had been cautioned.

**Grantham.**—At a meeting of the Kesteven Insurance Committee, held recently, the clerk reported that eleven samples of medicine had been taken and three samples of appliances. Medicines, with the exception of two cases, were satisfactory. In one case there was an excess of one ingredient of 20.5 per cent., and another ingredient of 10.6 per cent. The report of the analyst appointed by the chemist showed an excess of 10.2 and 7.5 per cent. in the two ingredients. Having heard the chemist's statement, the subcommittee recommended that no further action be taken. In the second case the certificate indicated a deficiency of one ingredient of 22.2 per cent., and an excess of another ingredient of 12 per cent. The subcommittee, having regard to the assurance given by the chemist, recommended that no further action be taken. At another meeting of the Pharmaceutical Service Subcommittee the clerk reported that a further nine samples of medicine had been taken and two of appliances. With the exception of one appliance and one prescription, the samples were satisfactory. The certificate by the Committee's analyst indicated an excess in the case of one ingredient of 45.3 per cent., and in another an excess of 17.3 per cent. The chemist stated the mistake was occasioned by reason of the arm of one scale pan of his scales slipping off the agate bearing. The chemist agreed to purchase another set of scales, and no further action was taken. The appliance prescribed was boric lint, which contained 48 per cent. of boric acid instead of 35.45 per cent. as prescribed. The subcommittee found that the chemist sold the lint in all respects as received by him from the wholesale house, and, under the circumstances, they recommended that no further action be taken. The report was adopted.

**Hastings.**—A meeting of the Hastings and St. Leonards panel chemists was held at 44 Wellington Square recently. The chairman (Mr. H. P. White) said the contract terms for Insurance dispensing would expire on April 30, and the future terms of contract would have to be decided before that date. A discussion ensued, and the Clerk to the Insurance Committee, who attended, pointed out the ways in which the arrangements for testing drugs and appliances might be improved. Mr. H. P. White was appointed to attend the forthcoming meeting of Pharmaceutical Committees' Representatives. Mr. White, in thanking the meeting for electing him as their delegate, added that Mr. A. E. Bolshaw had been a great help to him in his work on behalf of chemists. Resolutions were passed that in the scheme for testing drugs and appliances the chairman of the Pharmaceutical Subcommittee and the pharmacists' member be given greater latitude. Also that the analysts' reports be written on identical forms, and that the percentages be based on the total contents of the bottle.



**Isle of Ely.**—A meeting of the Insurance Committee was held on February 2, at which the Pharmaceutical Service Subcommittee reported on an alleged dispensing error. The chemist expressed regret. An excess percentage of 93.9 of spt. ammon. arom. was found present. It was recommended that the chemist be cautioned. The report was adopted. The chairman said that, while knocking the knuckles of the pharmacist, they should, at the same time, have expressed appreciation of the careful service they knew had been rendered by him since the inception of National Insurance.

**Isle of Wight.**—At a meeting of the Insurance Committee, held recently, it was reported that payments to chemists for the quarter ended December 31 amounted to £892 3s. 6d. Twenty-two samples of drugs and appliances had been analysed, and two chemists were cautioned.

**Lancashire.**—The Pharmaceutical Subcommittee have given consideration to the alleged "careless manner" in which a prescription was dispensed by a chemist on the panel, and they have recommended that the chemist be warned that the Committee expect a higher degree of accuracy. The prescription was submitted to the principal, who, recognising that it was capable of being easily dispensed, and was also innocuous, allowed an apprentice who had only been with him six months to make it up. An analysis of the medicine showed excessive quantities in three of the ingredients.

**London.**—Queries for the monthly meeting of the London Pharmaceutical Committee should reach the secretary (Mr. G. A. Tocher) not later than Monday, March 14.

**Maidstone.**—At a meeting of the Kent Insurance Committee, on February 9, the Pharmaceutical Subcommittee mentioned that they had reconsidered a complaint against a chemist who it was alleged had omitted emuls. chlorof. from a test mixture. The Pharmaceutical Subcommittee had recommended that the chemist be cautioned. Subsequently they had added "that no further action be taken," because of the conflicting results of analyses which had been before them in connection with two other samples of the same mixture. In each of these cases the reports by the Committee's analysts were to the effect that emulsion of chloroform was absent. The report of an independent analyst was to the effect that chloroform was present. In July last the Committee made representation to the Ministry of Health that the scheme should be amended so as to provide for the sample taken to be divided into three portions. These cases serve to emphasise the need for this amendment, and they recommended that representation again be made to the Minister of Health to that effect. Dr. Day said that with the 6-oz. mixture it would be extremely difficult to get results in three portions. The subcommittee's recommendation was adopted.

**Manchester.**—A meeting of chemists on the Manchester panel was held recently, Mr. J. H. Nidd in the chair, to discuss terms for the new Insurance contracts. At the outset, Mr. Nidd eulogised the valuable services which Mr. F. W. Bates, J.P., the late Mr. J. Bell, and Mr. T. E. Eastwood had rendered from the earliest Insurance days. He then indicated how the remuneration for dispensing services had reached its present level. The secretary (Mr. A. Herslberg) reviewed the work of the Committee for the three years, and directed attention to the forthcoming conference on February 23. After a discussion, the following four resolutions were moved by Mr. Abrahams, seconded by Mr. Miller and carried:—

That the Executive be urged to make every effort to obtain a 6d. dispensing fee.

That all preparations coming within the Dangerous Drugs Acts be deleted from the tariff and carry the ordinary dispensing fees.

Prescriptions coming within the D.D.A. should carry an additional dispensing fee of 1d.

Prescriptions containing industrial spirit should carry an additional dispensing fee of 1d.

**Middlesex.**—At a meeting of the Pharmaceutical Committee, held recently, Mr. Thomas Marns in the chair, Mr. H. A. Irwin was unanimously chosen to succeed Mr. H. R. Storm, who had resigned. Representatives were selected for the Conference to be held on

February 23, and it was decided to submit a resolution, asking for a dispensing fee of sixpence on compounded liquid medicaments. Statistics submitted by the checking supervisor, whose report was adopted, included the following:—Prescriptions issued in October totalled 160,408, value £5,816 15s. 3d., average ingredient price 4.3d., dispensing fee 4.4d. For November the figures were: 157,785, £5,727 11s., 4.3d. and 4.4d. respectively. There were issued during the third quarter, 495 prescriptions for insulin, for 64 patients, value £167 12s. 9d., and 124 prescriptions for serums and vaccines, for 154 patients, value £42 4s. 4d. Six hypodermic syringes were issued to six patients, value 18s., and 157 needles to 30 patients, value £2 19s. 11d.—The annual meeting of the Insurance Committee was held on February 7, in the Guildhall, Westminster, when Mr. J. D. Cooper was elected *Chairman*, and Mr. W. Marlow *Vice-Chairman* for the ensuing year. The Finance and General Purposes Subcommittee recommended payments, including the following accounts:—To chemists (October), £5,816 8s. 3d.; to practitioners for drugs, etc., £277 11s. 10d.; for dispensing fees, fourth quarter, £238 0s. 6d.; to chemists (November), £5,727 10s. 5d. The accounts were passed. The Finance and General Purposes Subcommittee reported that the estimated expenditure of the Joint Committee for Pricing Prescriptions (South Eastern Division) for 1927, amounts to £6,400, compared with £6,201 for 1926. The amount payable by the Committee for the year is £2,296, compared with £2,160 for 1926. The Subcommittee stated that the agreement with the Middlesex County Council for testing drugs and appliances is at present before the Ministry of Health. They (the Subcommittee) recommended adoption of the scheme. The number of chemists on the panel on January 25 was 362. There had been two resignations and nine admissions to the panel since November 23, 1926. The Subcommittee reported that the Ministry of Health had agreed to increase the capitation fee payable to insurance practitioners who supply drugs, etc., to insured persons from 2s. to 2s. 3d. from January 1. The Subcommittee reported that they had considered a letter from a firm of chemists, at Hounslow, relating to the conduct of an insured person. They had referred the communication to the Pharmaceutical Service Subcommittee for investigation.

## SCOTLAND

**Banchory.**—At a meeting of the Kincardineshire Pharmaceutical Committee, held on February 16, Mr. A. H. Miller in the chair, reference was made to the loss sustained by the Committee through the death of Mr. J. R. Reith, Cults, and Mr. Lunan, Banchory, was co-opted.

**Elgin.**—At the last quarterly meeting of the Moray and Nairn Insurance Committee, it was reported that the drug fund payments for September and October were £270. The meeting approved of the estimated expenditure for administrative purposes for the ensuing year being fixed at £658 10s., the same as last year.

**Glasgow.**—At a meeting of the Burgh Insurance Committee, recently, reference was made to the controversy over prescribing in the area. The chairman refuted the statements made recently that 1s. 10d. per patient annually was all that was being allowed for drugs under the Insurance scheme, and declared that he could only put them down to ignorance or a deliberate attempt to mislead the insured persons.

**Lanarkshire.**—The amount available for attendance and treatment of insured persons for the quarter ended December 31, 1926, was £11,304. The number of insured persons on the lists at October 1, 1926, was 108,526, or 2s. 1d. per insured person.

**Roxburghshire.**—At a recent meeting of the Insurance Committee, held at Newtown St. Boswells, it was reported that there were twenty-eight chemists and three firms supplying appliances, under agreement with the committee. The number of insured persons on the committee's register was 22,263. The amount paid by the committee during 1926 from the practitioners' fund was £8,510 3s. 6d., from the drug fund £1,693 14s. 8½d.



## Pharmaceutical Society of Northern Ireland Council Meeting

THE Council meeting of the Pharmaceutical Society of Northern Ireland was held on February 18 in the Society's offices, Scottish Provident Buildings, Belfast, the President (Mr. Horatio Todd, J.P.) in the chair. There were present also Messrs. A. C. McBride, J.P. (Vice-President), H. G. Pring, J.P., J. E. Connor, J.P., S. S. Badger, J.P., Jas. Dundee, W. J. Rankin, John Maxwell, W. E. Wilson, Jos. Moffet, W. S. Taylor, Fred Storey, Samuel Suffern, W. J. Hardy, Professor Small, Dr. Fielden, and Dr. Acheson. Professor Wren, of the Municipal College of Technology, Mr. D. L. Kirkpatrick (secretary), and Mr. W. D. L. Greer (Registrar) were in attendance.

A letter was read from the secretary of the Pharmaceutical Society of Great Britain stating that the Council would prefer to postpone further consideration of the possibility of the acceptance of the unendorsed certificate of the Northern Ireland Society for twelve months.

THE PRESIDENT said they could do nothing further at present.

Professor SMALL said he was sure they would like to see a proper system of indentures and limitation of apprentices.

### BRITISH PHARMACEUTICAL CONFERENCE

THE PRESIDENT reported on his visit to the Executive Committee of the British Pharmaceutical Conference, who would be glad to see as many as possible from Northern Ireland at the Conference in Brighton in June.

THE PRESIDENT was appointed to represent the Northern Irish Society.

### FINANCE COMMITTEE

A recommendation was agreed to that £1,250 be invested in stocks—Belfast Corporation, Belfast Harbour Board Debenture 1963 Stock and Ulster Loan.

### EDUCATION COMMITTEE

Letters from various candidates in regard to examinations were submitted. A discussion was held in the case of Mr. Andrew Corbett, who applied for a special drug-gist's examination.

Mr. STOREY moved in favour of this, but the motion was lost on a vote.

Mr. DUNDEE objected to the recommendation of Mr. McClenaghan for examination under Part I of the second schedule. He had served four years with a firm of wholesale agents.

After discussion, Mr. DUNDEE withdrew the proposal on the understanding that the matter would be referred back to the Committee.

The Technical School, Enniskillen, was recognised provisionally for botany and business methods, and the Christian Brothers' School, Enniskillen, for physics and chemistry, Part I, provided that the Technical School Committee can arrange for the use of the laboratories.

### APPRENTICES AND CLASSES

A resolution was passed on the recommendation of the Education Committee that a letter be sent to all chemists to ask them to allow their apprentices out for classes.

Professor WREN said it was a matter concerning the whole of the North of Ireland. Some of the apprentices were suffering very grave hardship, working late in shops three nights a week and coming to classes three nights a week and working on Sundays. In some of the provincial centres classes began at 7.30 p.m. and the employers would not allow them out till 8.20 p.m. So far as Belfast was concerned, he would meet the employers in every way he could if they would let him know what suited them. It was up to the Council to take some action.

Thirteen members and thirty-three associate druggists were elected.

The President's badge was handed round and greatly admired.

HEALTH RULES.—"Keep walking to keep well," the doctors say. But the motorist says, "Jump occasionally."—J. C. (9/2).

COST OF LIVING.—Official figures give the cost of living on February 1 as 72 per cent. above that of July 1914, compared with 75 per cent. on January 1.

## Pharmaceutical Society of Ireland Annual Dinner

ON February 21 there was a large and distinguished gathering in Clerys Restaurant, Dublin, at the annual dinner of the Pharmaceutical Society of Ireland, at which the President (Mr. F. J. Fitzpatrick) was in the chair. A list of some of the principal guests was given last week (p. 215), and altogether over 200 chemists and their wives, together with representatives of many wholesale houses, were present at a highly successful function. The President, proposing the toast of "His Excellency the Governor-General," said the gathering marked an important epoch in the history of the Pharmaceutical Society of Ireland. It was the first public dinner for thirty years, and probably would be the last public function of the Society as at present constituted. "Our Government," he added, "has intimated the necessity of new legislation for pharmacy in the Free State, and we are looking forward with confidence to the proposed new charter from a Government and Parliament of our own people." The Governor-General, in the course of his acknowledgment, congratulated the President and members of the Society on that auspicious occasion, and said that he trusted and believed it would be the beginning of a new era in the friendliness of their relations. The Society had a great function and duty to discharge, and in the advancement of surgery and medicine they could help and encourage one another. Sir Robt. Tate, proposing the toast of "The Pharmaceutical Society," said he had heard that the Society was about to change its name, and he wished it a very happy and a very prosperous career. Replying, the chairman said the Society was a body about which the general public knew very little. Yet it was a most important body, and stood as a safeguard to the public against illegal and unqualified trading. In all well-governed States the modern tendency was to place public health in a position of paramount importance. Their own Government was making keen progress in this direction, and he felt that in the near future pharmacy in the Free State would come into its own. As the handmaid of medicine, the chairman said, pharmacy as a calling for ladies was becoming very popular, and he mentioned that at a recent preliminary examination 50 per cent. of the candidates were girls, and the figures for the past two years showed the high average of 40 per cent. of girls seeking admission. Sir Thomas Robinson (member of Council), in proposing the toast of "Our Country," stated that he saw a great spirit of toleration and good fellowship spreading in the land. The spirit of captious criticism was giving way to a more tolerant view of the other man's opinions, and nothing could be more desirable than this to secure that co-operation which was so vital to the successful development of their country. Mr. Blythe, responding, said it was hard to avoid touching on politics when responding to such a toast. "We are," he said, "at the very early stages of a new era in Ireland. You all know something of the past—some of the people in this room may have very different ideas and very different outlooks in regard to Ireland. There are people who regard from very different angles what has happened, but if there is true patriotism we will try and forget past differences." Mr. J. J. Kerr proposed the toast of "The Visitors," to which Senator P. J. Brady, Senator Surgeon Barniville, and Sir James Percy responded. During the evening His Excellency the Governor-General presented the President of the Society, Mr. Fitzpatrick, with a cigarette case on behalf of the members of the Council as a token of appreciation of his energies in the interests of the Society. A pleasing musical programme was rendered by Messrs. Joseph O'Reilly, J. A. Walsh, and W. Lemass, with Mr. Clarke Barry's salon orchestra.

OPTICAL PHARMACOPEIA.—In the course of his speech at the Refraction Hospital students' dinner recently, Mr. O. Aves, chairman, said that members of the staff had prepared and published a Pharmacopeia for Refractionists, an optical glossary, and there is in the press a book on physiologic chemistry by Mr. Preston.



## Festivities

### West Kent Dinner

THE West Kent (Bromley) Branch of the Pharmaceutical Society spent an enjoyable evening on February 9, when the annual dinner took place. The President (Mr. Davenport) occupied the chair, and altogether over eighty were present, including ladies, members and friends. The duties of masters of ceremonies were admirably carried out by Messrs. Snow and Leather.

### Whist Drive at Reigate

THE annual whist drive of the Reigate and Redhill Branch of the Pharmaceutical Society was held at the White Hart Hotel, Reigate, recently, when an enjoyable evening was spent. At the close of play the secretary (Mr. H. Hocken) proposed a vote of thanks to Mrs. Sparrow, the wife of the chairman, who presented the prizes. The winners were: *Ladies*, Mrs. Sadler and Miss Barlow. *Gentlemen*, Mr. Lambert and Mr. Whiffen.

### Hull Pharmacy Students' Dance

ON February 9 the Hull Pharmaceutical Students' Association held their annual dance, a company of about 200 taking part. Many pharmacists were present, including Mr. H. Seymour Richardson (President, Hull Chemists' Association) and Mrs. Richardson. Mr. W. G. Bennett (President) and Mr. A. C. Duggleby acted as M.C.'s, and the committee consisted of Miss Bolton, Miss Spilman, Miss Magee, and Messrs. B. Foster, J. Gardham, W. Harding, E. Matthews, and S. Rushbrook.

### Leicester Ladies' Whist Drive

THE ladies' social committee of the local branch of the Pharmaceutical Society held an enjoyable whist drive at the Waterloo Hall on the afternoon of February 16, the funds so raised being to provide equipment for the botanical section of the Technical College. Mrs. A. E. Young presided over a company of eighty. The winners were as follows:—Miss Mayne, Mrs. Seal, Miss Collins, Mrs. Berridge, Mrs. Dunford, Mrs. Barrow, Miss Ashson, and Mrs. Wright. Prizes were given by Mrs. A. E. Young, Mrs. Wilby, Mrs. Dennis, Miss Coles, and Grand & Co., Ltd.

### A Fancy Dress Carnival

A FANCY dress carnival was held on February 10 by the Birkenhead and Wirral Pharmacists' Association and branch of the Pharmaceutical Society in aid of selected charities, about 200 persons attending. Mrs. W. Snow presented the prizes as follows: Most artistic, Mrs. J. Bramson (Spanish lady); Mr. B. J. Cooper (Baroness Percy's Laughing Cavalier). Most original, Mr. and Mrs. P. Grant (Indian Rajah and Royal lady). Most humorous, Mrs. B. J. Cooper (Superstitious); Mr. F. Wokes (bottle of poison). The judges were: Mrs. Fletcher (deputy mayoress), Mrs. Leigh Oakshott, Mrs. A. Ball, Dr. Crampton, Dr. Swan, and Dr. French. Mr. J. Lea was master of ceremonies.

### South of England College Social

THE South of England College of Pharmacy held a successful social and dance at the Avondale Halls, Clapham Road, on February 15, when the students were the guests of the Principal and Mrs. Lucas, students and friends numbering about 150. During the interval Mr. Morris, on behalf of the students, presented Mr. and Mrs. Lucas with a tea and dinner service, Mrs. Lucas also receiving a basket of fruit. Mr. Lucas suitably acknowledged the gift, remarking that this was the "coming of age" of the South of England College, as he started it, as an outcome of the Metropolitan College in 1905. A varied programme was continued till midnight, one of the features being two character sketches by Dr. J. S. White.

### Leicester Chemists' Dinner

THE pharmacists of Leicester held an enjoyable dance at the De Montfort Hall recently, when over 500 attended to join the chairman of the Branch of the Society (Mr. A. E. Young) in dancing. The object in view was to raise funds to provide further equipment for the

botanical section of the Leicester Technical College, and it is stated that a good sum will accrue. Among those present were Mr. and Mrs. A. E. Young, Mr. and Mrs. J. Barker, Councillor Oram, Councillor and Mrs. Witford, Mr. O'Riordan (Principal of the Leicester Technical College), Mr. R. Drewery (Registrar). Efficient M.C.'s were Messrs. Squires, Westhead and Peberdy, and the secretary, Mr. E. L. Burrows, worked hard for the success of the evening.

### Lombard Club Social

THE club-room of the Lombard Social and Athletic Club (Whiffen & Sons, Ltd.) presented a gay appearance on February 16, when the fifth annual concert was given under the direction of Mr. Arthur Bagwell. An appreciative audience filled the building to overflowing. The directors were represented in the President, Mr. W. G. Whiffen, who, in addressing the gathering, stated that the membership had more than doubled since last year, the credit being chiefly due to the new chairman and secretary. Thanks should be accorded to the musical director and committee for the admirable arrangements for the concert. He congratulated them upon their good financial position and appealed for the co-operation of all to make the Club a really live concern. Mrs. T. J. Whiffen has presented the Club with a piano.

### Dinner at Reading

THE annual supper and smoking concert of the Reading Branch of the Pharmaceutical Society was held recently. Mr. J. Cooper (vice-chairman) presiding. The chairman proposed "The Pharmaceutical Society," to which Mr. H. N. Linstead replied, pointing out that, while the coming year would be one full of difficulties, the Society had been in similar circumstances since its foundation. He appealed for subscriptions to the parliamentary fund, to which, he said, every pharmacist should subscribe. A presentation of a silver-mounted walking stick was then made to Mr. F. W. Vasey, the chairman of the Reading Insurance Committee, for services done on behalf of pharmacists. The toast of "Ladies and Visitors" was proposed by Mr. A. Greenwood Watkins, Maidenhead, and replied to by Mr. G. Blair, secretary of the Reading Insurance Committee. A concert was given by "The Versatile Entertainers," a dance following.

### Ext. Convivialitatis Conc. (P.D. & Co.)

IT took the Grand Hall of the Portman Rooms, Baker Street, W.1, to hold the ingredients (male and female) that were assembled on the evening of February 18. These consisted of members of the staffs of Parke, Davis & Co., and their friends, and their joy in each other was evident. Both Mr. Harry J. Fisk and Mrs. Fisk were indefatigable in welcoming everyone and in keeping things going, and among those assisting were Mr. and Mrs. F. A. Lawman, Mr. and Mrs. Tyler, Mr. Thomas Maben, Mr. and Mrs. G. F. Tocher, Miss Helena Stewart, Mr. Harry Hickey (the doyen of P. D. & Co. representatives), and many other well-known representatives of the firm. As a variation to the fox-trotting, waltzing and Charlestoning, there was a very clever cabaret entertainment by "The Whirligigs." After supper the gathering took on even more of the carnival spirit, and altogether the company, numbering well over 300, appeared thoroughly happy. The gathering was an excellent illustration of the friendliness existing in all ranks and of the democracy of dancing.

### British Optical Association's Dinner

THE annual dinner of the British Optical Association was held at Prince's Restaurant, London, W., on February 9, Mr. W. B. Barker, President, occupying the chair. In proposing "Our Guests," Mr. Barker, after referring to the conditions which existed when the Association was founded, said that to-day a new type of optician had grown up, and the public attitude towards glasses had entirely changed. The Association's examination schemes were still developing, and at the forthcoming International Congress at Oxford members would be able to see all that is latest in optics throughout the world. Replying, Major W. H. Champness, clerk to the



Spectacle Makers' Company, said the company had for almost as many years worked on lines parallel to the B.O.A., though they had, of course, an older history. Mr. S. L. Duff, chairman of the Consultative Committee, National Health Insurance, spoke on the relationship of opticians to the Insurance Acts, and Dr. Palmer (Manchester College of Technology) thought that opticians had never received the recognition they deserved.

#### Croydon Chemists' Dinner

THE annual dinner of the Croydon Branch of the Pharmaceutical Society and the Croydon Pharmacists' Association was held on February 9, about 130 being present. The chair was occupied by Mr. Osmond Morris (vice-chairman). Among the guests present were Mr. A. R. Melhuish (member of the Pharmaceutical Council), Mr. H. E. Chapman (secretary of the Proprietary Articles Trade Association), Mr. S. A. Noble, Mr. F. G. Wells, Mr. Sparrow, Mr. Harry Martin. The toast of "The Pharmaceutical Society" was proposed by Mr. F. S. Rose. Mr. Melhuish, in replying, said the Council was alive to the necessity of immediate action and the great benefit it would be to pharmacists to have one of their own craft in the House. Mr. Wells proposed "The Branch and Local Association." It spoke well for the Association, he said, that in eighteen years there had only been two secretaries, Mr. Dickinson and Mr. H. C. Neve. Mr. Osmond Morris and Mr. Noble replied. Mr. R. Rickeard, in proposing "The Visitors," welcomed the presence of many members of other associations and the representatives of the wholesale. He congratulated Mr. H. E. Chapman upon his appointment as secretary of the P.A.T.A. Mr. H. E. Chapman briefly replied. Mr. A. G. Wrench acted as toastmaster.

#### S.W. London Chemists' Dinner

THE annual dinner and dance of the South-West London Chemists' Association was held at the Holborn Restaurant, W.C.1, on February 23. The President (Mr. F. G. Wells) was in the chair, supported at the top table by Mrs. Wells, Mr. Herbert Skinner (Vice-President of the Pharmaceutical Society), Mrs. Freke, Mr. John Humphrey, Mr. John Keall, Mr. T. Marns, and Mr. A. R. Melhuish (members of the Council), Mrs. Irvine (President of the National Association of Women Pharmacists), Mr. Peter Irvine, Mr. C. G. Bonner (President, Western Pharmacists' Association), Mr. J. T. Walters (President, North London Pharmaceutical Association), Mr. F. A. Lawman (President of the Ealing Pharmacists' Association), Mr. and Mrs. C. A. Noble, Miss Elsie Morgan, Miss Borrowman, Mr. A. Hope-Darby, Mr. W. H. Goy, Mr. G. A. Tocher, Mr. W. B. Falding, Mr. H. S. Foster, and Mr. O. Morris. Among others present in the large gathering were Mr. T. Evans, Mr. E. Skuse, Mr. W. K. Fitch, Mr. D. A. Rees, Mr. G. B. Brook, Mr. J. E. Monaghan, Mr. J. E. Jones, Mr. W. J. Boyes (these were in charge of spur tables), Mr. F. Giles, Mr. H. G. Mumford, Mr. S. F. Weight (S. Maw, Son & Sons, Ltd.), Mr. W. J. Williams (Francis Newbery & Sons, Ltd.), and representatives of Ayrton, Saunders & Co., Ltd., J. C. Eno, Ltd., Evans Sons Lescher & Webb, Ltd., Wright, Layman & Umney, Ltd., and several other wholesale houses. During the evening the President announced apologies for absence from Mr. W. F. Gulliver, Mr. E. A. Atkins and Mr. T. Beech. Following a capital dinner, the toast of "The Pharmaceutical Society and the Retail Pharmacists' Union" was proposed by Mr. D. A. Rees, who urged the claims of the Parliamentary Fund, remarking that the position of pharmacists under the Health Insurance Acts was almost entirely due to the presence of Sir William Glyn-Jones in Parliament when the first Act was passed. Mr. Skinner, responding for the Society, pointed out that the Council had had many criticisms. He had received a suggestion that the Council should consist of seven elderly, seven middle-aged, and seven young members. (Laughter.) The Pharmaceutical Society was going to get the £10,000 needed for the Parliamentary Fund, and South-West London was going to lead the line. "If you stand by us," concluded Mr. Skinner, "you will find that the Council will stand by you all the way through." Mr.

Melhuish, responding for the Union, said that the Union had received loyalty and support which, he hoped, would be continued in this time of stress. The Pharmaceutical Society was in a healthy condition. A Departmental Committee was inquiring into the conditions of pharmacy: numerous doctors had been called in, but many of them were quacks, and many of their prescriptions were quackery, pure and simple. He could assure the Vice-President of the Society that the Retail Pharmacists' Union, like the Society, was out for the good of pharmacy and of the individual pharmacist. If they followed the advice of the Vice-President and worked together with loyal support, there was no fear for the future of pharmacy. (Applause.) Mr. G. Brook submitted the toast of "The Ladies and Visitors." Mr. C. G. Bonner, in the course of a brief reply, made one of the hits of the evening by quoting "the more we are together." Following his speech replicas of challenge cups were presented amid great applause to Miss Boyes and Mr. Monaghan. The final toast, that of "The Association," was given by Mr. Marns, who contrasted the aloof attitude of twenty-five years ago with the sociability of present-day gatherings. With the toast was coupled the name of the popular President, now in his second year of office. It was accorded with musical honours, and Mr. Wells, in a reply of exemplary brevity, thanked the Presidents of other associations for their support and paid a tribute to the secretaries and council of the South-Western Association. Vocal solos completed the first half of the programme, after which the room was cleared for dancing.

#### Staff Functions

TAYLORS' DRUG CO., LTD., held a whist drive and dance on February 2, in the Town Hall, Leeds, where nearly 500 members of the staff and their friends had a most enjoyable evening. The chairman of the company and the directors were present, and the whist prizes were presented by Miss F. N. Armitage.

THE annual dinner of the branch managers and advertising staff of Young & Harrison, Ltd., retail chemists, London, N., was held recently at Frascati's, Oxford Street, W. Mr. A. W. Harrison occupied the chair. The toast of "The Firm" was proposed by Mr. Theddum (advertising department), and was responded to by Mr. Harrison. Afterwards a telegram was despatched to Mr. J. C. Young, wishing him a speedy recovery from his illness. The company then proceeded to Daly's Theatre, where seats had been reserved.

THE "Allenburys" Musical and Dramatic Society occupied the well-equipped theatre of the Cripplegate Institute, London, E.C.1, on February 16 and 17, for two performances of "At Mrs. Beam's," a comedy in three acts by C. K. Munro. These were well attended by appreciative audiences. Mr. Norman Evers, who produced the play, took the part of Mr. Dermott, Miss Evelyn Gordon of Miss Shoe, Miss Violet Miles of Laura Pasquale, and gave talented performances; the other parts were all well sustained. Hearty appreciation was manifested throughout and at the close of each performance.

LEIPZIG INTERNATIONAL INDUSTRIES FAIR.—Among British manufacturing houses that have taken space at the Leipzig International Industries Fair (March 6-12) are H. Bromley & Co., Ltd., London, W.3, and Cussons, Sons & Co., Ltd., Kersal Vale, Manchester. THE CHEMIST AND DRUGGIST is one of the newspapers that will be represented.

COMPANIES WHICH MAY BE WOUND UP.—The under-mentioned companies will, unless cause is shown to the contrary, be struck off the register and the companies dissolved three months after January 11:—Atmospheric Nitrates (Kilburn Scott Patents), Ltd.; Bateman's (Cash Chemists), Ltd.; British Milk Products Co., Ltd.; Chlorethers, Ltd.; Granville Perfumery Co., Ltd.; Gregory Fertilizers, Ltd.; Heaths Cash Chemists, Ltd.; Hopex Chemical Co., Ltd.; Hydrogen Co., Ltd.; Morris's Chemical Co., Ltd.; Parkinson's Dental Surgery, Ltd.; Permanol, Ltd.; Plant Food Supply Co., Ltd.; Soaps, Ltd.



## Making Dispensing Pay

### IV. Securing and Retaining Medical Support

FOR real success in the dispensing department the confidence and co-operation of the medical profession are essential. There are many ways of obtaining these. The principal one, of course, is merit. If you are always better than your advertising, if you never allow mistakes to go out of your pharmacy, if your workmanship and the quality of your materials are of the highest and best, if your promptness is above reproach you cannot help but succeed. You must never let the doctor down. There are times when this rule cannot be kept; but, generally speaking, you are the safeguard for both doctor and patient. Here are a few "don'ts" which are almost platitudes, but should never be lost sight of, and for the student or young assistant at least may be stated:—

Don't forget that your customers have implicit faith in their doctors;

That customers always think that the prescription is without flaw;

That if you do not appear to understand it on first looking at it, you will be accused of incapacity or ignorance;

That you should always study a prescription out of the customer's sight;

That to consult a reference book is not a sign of ignorance;

That you should always verify your references;

That you should never question a patient—it only arouses suspicion either of the doctor or yourself;

That you should never give information to the patient about the effect or the ingredients of a prescription;

That you should not say anything derogatory about the doctor;

That no customer should be allowed to watch the dispensing of a prescription;

That any form of interference leads to mistakes;

That the confidence which your customer has in you is your "goodwill";

That if a mistake does occur the medicine should be got back without stating that an error has crept into your dispensing;

That no prescription should be dispensed for others than the patient for whom it was written without the doctor's permission; he has a right to his fee.

With the observation of the above suggestions the doctor will feel that he has your loyal support and help, which will be reciprocated. It is important that you get the local doctors to cultivate the habit of coming into your pharmacy. The ideal is for the doctor to call in after his morning rounds with the prescriptions for his patients. There are pharmacies which rarely have the visit of a doctor. The business is not the kind to be described as a dispensing business. Such a pharmacy at present might do a large amount of Insurance dispensing, and yet might do a great deal more. Perhaps it will be better to consider this type of pharmacy first.

The National Health Insurance Act made people think and ask questions. In many places the private patients of a doctor wanted to know why they had to have their medicine dispensed in the doctor's surgery, while their poorer brethren could have theirs dispensed by the chemist. The wives of insured persons also asked the same question. When the Insurance dispensing was well done (which is the general rule), this question was invariably asked. In a small town of about 35,000 population, which can be taken as a typical illustration, this is what happened. The bulk of the population was engaged in factories or dependent upon these factories for a living. They comprised the owners, managers, buyers, overlookers, workers and their families. The workers were the only ones who had their medicines dispensed by the chemist; all the rest had to be supplied from the various doctors' surgeries. The question was asked, and no satisfactory answer was forthcoming. The chemists of the town, hearing the eternal question, met together and formulated a scheme to lay before the local doctors. The scheme proposed that the doctors should cease dispensing and write prescriptions for all their patients, private as well as insured. These prescriptions could be taken by the patients to whichever chemist they desired. The chemist should

charge the doctor for the private dispensing on a tariff rate based on the Insurance tariff, with a similar dispensing fee. If the patient had to pay for the medicine supplied, then the prescription should be written on notepaper, not on the form to be used when the doctor had to pay. The doctors were taken with the scheme, and with slight alterations accepted it. The only dispensing in that town is now done by the chemists, with the exception of emergency work, during the night or part of Sunday. The chemists have a rota. The scheme works well, and has done for some years. Any town or area could adopt some such method with advantage. Patients like it, doctors realise the great advantage of it, and the chemist finds that it brings far more potential customers into his shop. Though the prices charged to the doctors are not high, they are not unremunerative, and the increased volume of business done is enormous. Each chemist in the town has loyally stuck to the bargain. No doctor sends his prescriptions all to one shop; and when he does send to any particular shop, it is the choice of the patient.

#### FOR DISPENSING CHEMISTS

Send letters to the doctors regularly. Let them know you are alive. Tell them of anything you have newly installed. There is no need for you to take "The British Medical Journal" or "The Lancet" for the doctors' use. If you do, they may think that you have it for nurses, and that only annoys them. Get such publications for yourself, by all means, if you have time to read them and feel the need of them to help you to keep up to date. Tell medical men of new drugs or preparations which you have in stock. Some of the firms who send travellers to call on the doctors will let you have a monthly circular, such as they are sending to the doctors each month. You can then write to your doctors, your letter arriving the day after the monthly one from the firm, telling them that you have the particular preparation in stock. That will stamp you as being alive, and you get the cumulative benefit from the nationally advertised line. Tell them of new methods of prescribing; suggest that ointments be dispensed in tubes, encourage the ordering of cachets and capsules. Try to get them to prescribe effervescent salts and tablets—anything, so long as you are sending them an interesting letter at least once a month. If a medical man comes into your pharmacy have a desk for him to write his prescriptions at, with notepaper and a "Martindale" or "Squire" for reference. Be prepared with suggestions to avoid the too intimate acquaintance of the patients with the remedies prescribed. If it is a case of charging the cost to the doctor, he may be induced to write the names backwards, as—

Tab. aracasac, dargas, gr. 3 = Tab. cascara sagrada gr. 3

Tab. niportoru gr. 5 = Tab. urotropin gr. 5

Another suggestion is to have such things as aspirin tablets coloured yellow or green; they could then be prescribed as tab. flav. or tab. virid. With Parrish's food it is a good idea to have a supply made without the cochineal, and it could be prescribed as syr. ferri. phos. co. flav., thus preventing the lay person from saying that the doctor "only ordered Parrish's." If you can get your doctor to let you have his favourite pills made up in tablet form it is a change. Your tablet maker will be glad to supply, and he will make calomel tablets coloured and flavoured. The best flavour is oil of wintergreen in very minute quantities. If your doctor is fond of flavouring agents keep introducing new ones to him. Many of the old ones are new to the medical profession.

Let your medical man know that your preparations of ergot, strophanthus and digitalis are all standardised. If you do bacteriology let him know. If you are willing to undertake urine, milk or water analyses tell him of the fact. If he orders senna pods keep a perfect quality and let him have samples, so that he can see that your aim is to assist him to get results. If you are often having calamine lotion ordered, let him know that you have perfected the making of this preparation, and tell him of your method to ensure that the finished product is free from all grit. If he has diabetics among his patients, let him know that you can supply diabetic foods. Get samples for him to let them fry, and booklets describing the method of manufacture. Be helpful and be ready with suggestions. If you stock serums and vaccines, see that



they are fresh and stored in an ice-box. If possible, be the supplier of drugs to the local infirmary or hospital, or even the institution. It gives a good reputation.

#### DOCTORS, NURSES, AND PATIENTS

Be ready to save the time of your customer as well as your doctor friends. If a prescription is handed in for an eye-lotion, suggest an eyebath, eyedropper, cotton-wool, eyeshade or anything else that might be indicated. It serves a double purpose, more business and a saving of time to a waiting patient. If you have a doctor who orders oxygen, try to get him to order it in good time. It is more likely to prolong life, and it will often save you from getting up in the middle of a cold night. Always be better than your promise to both doctor or patient. If you say that the medicine will be ready at 6 p.m., see that it is all ready and wrapped some minutes before the hour. Ill people are impatient people and need every care. Another important thing is to keep your copy of "The Art of Dispensing" on your prescription-desk always ready for use. It will save you hours of time, give you confidence in your work, and suggest hundreds of helpful ideas for you to put before the medical profession. It is a work that no dispenser can afford to be without, and that will make a dispenser out of a student. Nurses, too, require consideration. They can often direct a prescription or even a customer to one pharmacy or another. If possible, keep a register of nurses. You can help doctor, patient and nurse by this means. A nurse for whom you can get posts is a friend for life. The doctor who can rely on your recommendation is also a better friend of your pharmacy than he was before. The nurse and the doctor are, without doubt, the two best media for advertising the dispensing department, but merit must be your share. If you are alert, careful, using all your faculties to see that yours is the best pharmacy in your town, all is well.

## Pharmaceutical Society of Great Britain

### Branch Meetings

**Newcastle-on-Tyne.**—A meeting of the Newcastle and Northumberland Branch was held on February 10, about seventy members and friends being present to hear Sir Thomas Oliver, consulting physician, give his lecture on *Industry and Disease*. The chairman (Mr. J. Whittle) presided, and, before calling upon Sir Thomas, congratulated him on his appointment as principal of the College of Medicine, Newcastle. Sir Thomas pointed out that a different type of medical practitioner was developing, one who relied more upon external methods, and who worked in conjunction with the bacteriologist. But at present the bacteriologist only took an academic interest in the disease which the physician was combating. Similarly the chemist and druggist was of assistance in correcting mistakes and incompatibles and in preventing accidents. It was a pity that the restrictions imposed upon the pharmacist were so great—greater than those under which the medical practitioner suffered. At the present time this country suffered from too much legislation, which created a feeling of resentment. The trouble is that the men who are responsible for the legislation have never been able to see more than one side. That the Dangerous Drugs Acts have prevented loss of life goes without saying; also the criminal use and abuse of these drugs has had a serious set-back. But the chemist and druggist has now much added expense and worry in carrying out the regulations. In addition, a doctor's prescription is sometimes shorn of its good by the omission of one of the scheduled drugs. Cast-iron regulations, Sir Thomas declared, cannot take the place of doctors and chemists. Finally, what real or scientific value is there in the inspection of the records which have to be kept? Is there any adequate return for the expense incurred by the country in maintaining these inspectors? The speaker then discussed his subject in detail, referring to the ventilation of mines, lead poisoning, the abolition of "phossy" jaw and similar diseases, and the prevention of "caisson disease."

## Westminster Wisdom

Notes on Parliamentary Matters.

### A FIXED EASTER

The Stabilisation of Easter Bill, which has been presented to the House of Commons, is designed "to regulate the date of Easter Day and days or other periods and occasions depending thereon."

### SALE OF FOOD AND DRUGS BILL

The object of this Bill, which was read a second time on February 21, is to give effect to a recommendation of the Departmental Committee on the Use of Preservatives and Colouring Matters in Food. The Committee recommended that any prohibitions or limitations imposed by the regulations should bind the courts in proceedings taken under the Sale of Food and Drugs Acts.

### DISPENSING DOCTORS

Mr. Couper asked the Minister of Health, on February 17, whether any action is proposed in regard to the representations he has received from the Pharmaceutical Society against the practice of doctors in England and Wales dispensing medicines and supplying medical and surgical requisites?

Mr. Chamberlain: Legislation would be required to preclude medical practitioners from dispensing and supplying medicines and surgical appliances. I am not prepared, as at present advised, to introduce legislation for this purpose.

### INSULIN IN DIABETES

Brigadier-General Brooke asked the Minister of Health, on February 17, whether his medical officers are still recommending the use of insulin for the treatment of diabetes; and whether, in view of the attacks now being made on this remedy, he will define the position of his Department?

Mr. Chamberlain: It is not ordinarily part of the duties of medical officers of the Ministry to make recommendations in regard to treatment, though regional medical officers may occasionally offer suggestions at the request of an Insurance practitioner. As regards the second part of the question, I am advised that the administration of insulin is unquestionably of great value in suitable cases. I may add that the mortality rate from diabetes does not appear to be increasing, although the number of deaths from this disease naturally tends to increase with the increase in the population.

## Personalities

MR. DAVID WEST, late of Liverpool, has been appointed manager to Saville Perfumery, Ltd., Watford.

COUNCILLOR N. W. WOOD, retired chemist, Harrogate, has been elected a member of the committee of the Harrogate Chamber of Trade.

THE Council of the Physical Society of London has awarded the fourth Duddell medal for meritorious work on scientific instruments and materials to Mr. F. Twyman, F.R.S., managing and technical director of Adam Hilger, Ltd.

MR. HAROLD R. JENSEN, M.Sc., pharmacist, for many years chief chemist to Evans Sons Lescher and Webb, Ltd., has just been admitted to the Fellowship of the Institute of Chemistry. Mr. Jensen has latterly specialised in food and confectionery technology.

REFERENCE was made at the recent annual meeting of the Barnstaple and North Devon Dispensary to the retirement of Mr. J. P. Phillips, and the committee placed on record its gratitude for the devotion and zeal he had displayed as dispenser for nearly forty years. The dispensary has had only two dispensers, who between them have held the office for over ninety years.

ACCORDING to the now available official statistics for 1925, exports of vanilla from Guadeloupe in that year amounted to 31,411 kilos, valued at 7,592,145 francs, against 23,737 kilos, value 3,102,305 francs, in 1924.



## Marriages

**ADAMSON—CROOKS.**—On February 19, William Adamson, M.P.S., Southall, to Elizabeth Crooks, widow of the late Right Hon. Will Crooks, P.C., M.P. At home after March 14.

**ATKIN—GOODBROOK.**—At Emmanuel Church, West End Green, London, N.W., on February 12, J. A. Alban Atkin, chemist and druggist, 243 West End Lane, N.W.6, to Edith Nora Goodbrook, 7 Lyncroft Gardens, N.W.

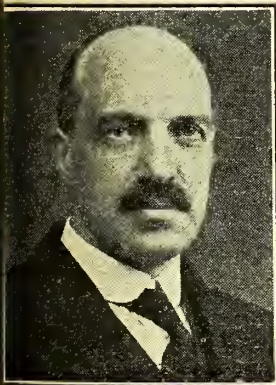
**GILL—SMITH.**—At Epsom, on February 16, William George Gill, M.P.S., F.C.S., Leytonstone, London, E., to Beatrice Dorothy Elsie Smith, Belmont.

## Deaths

**ALLEN.**—At King's College Hospital, London, S.E.5. on February 19, following an operation, Mr. William John Allen, retired chemist and druggist, Bronwydd, Romilly Park, Barry, aged fifty-three. Until a few years ago Mr. Allen carried on business in High Street, Barry. He was a native of Cardiff, where he served his apprenticeship to the late Mr. R. Prust, Broadway. Mr. Allen took an active part in public work; he was a member of the Barry Maternity and Child Welfare Committee, a member of the local chamber of trade, and a past-President of the Barry Pharmaceutical Association. He leaves a widow.

**COWLEY.**—At his residence, 32 Cromwell Street, Nottingham, on February 19, following accidental poisoning, Mr. Henry Williamson Cowley, chemist and druggist, 18 Alfreton Road, aged seventy-five.

**CUMMING.**—At his residence, Hall O'Shaw, Crewe, on February 16, Mr. John Cumming, chemist and druggist, 6 Victoria Street, aged sixty. Mr. Cumming went to Crewe from Aberdeen in 1895, and in course of his career took an active part in public affairs. He served as President of the Crewe Tradesmen's Association, was a member of the Cheshire Insurance Committee, and for many years was a town councillor. In 1924 his services to the community were recognised by his election as Mayor of the borough. He was a prominent Freemason, being a Past Principal of the Royal Arch Lodge, Sandbach, an officer of the Lodge of King Solomon's Temple, Chester, and a



MR. JOHN CUMMING

founder of Prudence Lodge, Crewe. His wife died several years ago, and a son was killed in action in 1916. Mr. Cumming leaves three sons: two have qualified as chemists and druggists, and one of these, Captain H. Duncan Cumming won the Military Cross (with bar) during the European war. The funeral, which took place on February 19, was attended by a numerous gathering.

**DANIEL.**—At Wandsworth, London, S.W., recently, Mr. William James Daniel, chemist and druggist, aged fifty-seven.

**DE CARLE.**—At Hammersmith, London, W., on February 12, Mr. George De Carle, chemist and druggist, aged fifty-seven. Mr. De Carle had carried on business at 134 Goldhawk Road, W.12, since 1918.

**DIXON.**—At Norwich, on February 3, Mr. Herbert Dixon, chemist and druggist, aged seventy-three. Mr. Dixon was in business for a long period at 1 Russell Gardens, London, W.14.

**EVANS.**—At his residence, Bryn Seriol, Cardigan, on February 10, Mr. Evan Ceredig Evans, J.P., chemist and druggist, aged seventy-five. Mr. Evans, who served his apprenticeship to Mr. J. D. Treharne, Cardiff,

carried on business in Cardigan, in succession to the late Mr. John Williams, for fifty years. He was Mayor of the borough in 1892 and 1910.

**FLETCHER.**—At Guildford, on February 13, Mr. Edward Norman Fletcher, chemist and druggist, aged forty-eight. Mr. Fletcher was with H. Jeffries & Co., chemists, High Street, for six years prior to commencing business on his own account in Stoke Road. The funeral, which took place on February 16 at Guildford Cemetery after a service in the Commercial Road Baptist Church, was largely attended.

**KIMPTON.**—At Rudgwick, Sussex, on February 20, after a long illness very bravely borne, Mr. Philip Burgess Kimpton, eldest son of Mr. Charles Herbert Kimpton and Mrs. Kimpton, Wallington, aged thirty-two. Mr. Kimpton was with his father's firm, Kimpton Brothers, drug merchants, Mincing Lane, London, E.C.3, from 1909 till 1914, when he enlisted; after the war he returned to the firm until his health failed. He leaves a widow. The funeral took place at Holy Trinity Church, Rudgwick, on February 22.

**MACKENZIE.**—At Westbank, Inverurie, on February 12, Mr. George Grant Mackenzie, retired chemist and druggist, aged eighty-two. Mr. Mackenzie carried on business in High Street, Aulness, for more than thirty years, and retired six years ago.

**PRIOR.**—On February 17, Mr. Percy Prior, late of Westcliff-on-Sea, aged sixty-four. Mr. Prior was at one period of his career a partner in the firm of Lambert & Strong, produce brokers, Mincing Lane, London, E.C.

**WEST.**—At his residence, Vernon Street, Derby, on February 8, Mr. Eli West (E. & A. West, Ltd., chemical manufacturers, Parcel Terrace), aged eighty-five.

**WIGGINTON.**—At 137 Sloane Street, London, S.W.1, on February 11, Mr. Alfred Wigginton, chemist and druggist (Alsop & Quiller, chemists), aged seventy-three.

## Wills

**MR. JAMES SELKIRK, Ph.C.,** 28, Avondale Place, Glenogle Road, Edinburgh, who died on December 26, left personal estate in Great Britain valued at £7,998 15s. 11d. Probate has been granted to Thomas Liddle, solicitor, and Robert Watson Martin, Edinburgh. The testator left £500 to the Merchant Company of Edinburgh, the income to be applied by the governors of Daniel Stewart's College in promoting the success of the cadet corps of the school; and on the death of the residuary legatee he left one-half of the residue of the property to the Church of Scotland for one or more of the schemes of the Church, one-fourth to the Royal Infirmary of Edinburgh, and one-fourth to the Royal Blind Asylum and School, Edinburgh.

**MR. COTNAM FIELDS,** chemist and dentist, 66 Scotgate, Stamford, who died on January 15, left estate of the gross value of £8,312 0s. 1d., with net personalty £8,285 6s. 1d. Probate has been granted to his niece, Miss Eliza Fields, John George Robinson, 1 Barn Hill, Stamford, solicitor, and Patrick William Johnston, 65 High Street, Stamford, bank manager. The testator left £3,000 to his niece, Eliza Fields, for life, "in recognition of faithful service rendered to me for nearly twenty-five years"; and at her death he left £300 to Dr. Barnardo's Homes, £400 to St. Dunstan's Hostel for the Blind, £300 to the Benevolent Fund of the Pharmaceutical Society of Great Britain, £300 to the British and Foreign Bible Society, £300 to the Church Missionary Society, £400 to the Stamford and Rutland Infirmary, £500 to the Rector and churchwardens of St. John's, Stamford, for the repair and improvement of the church, and the residue of the said moneys to St. Dunstan's Hostel. He also left £500 to his niece, Mary Louisa Bean, £500 to his niece, Flora Cox, and the residue of the property as to one-third to his niece, Eliza Fields, and two-thirds to his nephews and nieces, Eliza Fields, Flora Cox, George Frederick Fields, Walter Lehere Fields, and Lydia Ethel Louisa Patterson in equal shares.



## Trade Notes

MRS. PARKER'S QUIN-JULIP is a speciality of J. Harley Parker, Ltd., 117 St. George's Road, Belgravia, London, S.W.1.

BORONIA, a perfume from an Australian tree, is advertised in this issue by E. N. Bromage & Co., 73 Selhurst Road, London, S.E.25.

PRAGUE INTERNATIONAL FAIR is being held from March 20 to 27. Mr. C. Peterka, Buchanan Buildings, 24 Holborn, London, E.C.1, is the representative in this country.

WINDOW FITTINGS.—Dudley & Co., Ltd., Holloway, London, N.7, have issued a new illustrated list of shop and window fittings and accessories. The list is helpful to chemists who take an interest in the way their goods are displayed in the window or on the counter. It is sent free on application.

MONSOL PREPARATIONS.—Thos. Christy & Co., 4 to 12 Old Swan Lane, Upper Thames Street, London, E.C.4, have been appointed sole distributors for the Monsol preparations manufactured by the Mond Staffordshire Refining Co., Ltd. These include liquid Monsol, and Monsol ointment, pastilles and capsules. An advertisement in this number gives further particulars regarding these preparations.

STERLING BRAND CHEMICALS.—In the double page advertisement of Thomas Tyrer & Co., Ltd., in the British Industries Fair inset of the *C. & D.*, February 19, it was intended to invite our readers to make a point of visiting Stand A.25, whereas in error a different wording appears on the first page. The Fair is open for another week, so that those who have not visited it have still ample opportunity of doing so.

NEW SEASON'S COD-LIVER OIL.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, announce that the first consignment of 1927 cod-liver oil has just been received from the company's Lofoten factory. The laboratory report, a copy of which has been sent to us, shows the oil is of a low acid value and that the iodine value and colour test for vitamin A is good. The physiological tests are being carried out in the laboratory of the Pharmaceutical Society.

WHITAKER'S 1927 MESSAGE TO CHEMISTS.—Whitaker & Co., Kendal, are sending out to chemists a fresh circular in connection with the "Luton" straw hat dyes and "Auroral" cold water dyes. The firm are making an offer of a special display and storage cabinet for Auroral dyes which will appeal to chemists. The cabinet is supplied free of charge with orders of one gross of the dyes. The convenience of the case is apparent from the fact that separate spaces are provided for each of the twenty-seven shades, and its advertising value in promoting sales is considerable. Details are given in an advertisement in this issue.

DECAFFEINATED COFFEE.—Owing to the effects of caffeine many persons are prevented from drinking tea and coffee, or can only take small quantities. A number of processes have been devised for removing the alkaloid, but in nearly every case some drawback, such as alteration of flavour, exists. Of the many methods proposed for obtaining caffeine-free coffee, the one which has probably achieved the greatest success is that of steaming the green beans and then dissolving out the caffeine by means of benzol, chloroform, dichloromethane, or some other suitable solvent. The beans are afterwards roasted and ground in the usual way. On a commercial scale it is practically impossible to abstract the whole of the caffeine, but only a small quantity remains. The H.A.G. Coffee Co., Ltd., who specialise in caffeine-free coffee, extract 97 per cent. of the caffeine and claim that, by their process, neither the taste nor the aroma of the coffee is impaired. The company has recently opened premises at 40 Theobald's Road, London, W.C.1, which are equipped with the most up-to-date machinery, and a large demand is anticipated for their product (which has received the support of medical men abroad). In France, Belgium and America this coffee is known as Sanka coffee, and in other countries as H.A.G.

## Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1926, p. 309.

(From "The Trade-marks Journal," February 2, 1927.)

- "STAPLES QUALITY BLADES" with device of staple and letter "S" ("Staples" and letter "S" disclaimed); for safety razor blades (12). By J. W. Staples, 79 St. John Street, Bridlington. 469,847.
- "MEN"; for safety razors and blades (12). By Rasomem-Rasier-Apparate-Und-Klingen G.m.b.H., 2 Maysedergasse, Vienna. 473,519.
- "W U G" in diamond-shaped frame; for razors and blades (12). By M. Sass & Co., 21A Barbican, London, E.C.1. 475,150.
- "POMONA"; for liqueur extract (42). By J. Crampton & Co., Ltd., 31 Princess Street, Chester Road, Manchester. 474,186. (Associated.)
- "MEMALTO"; for poultry food containing malt (42). By The Burton Maltng Co., Ltd., 184 Horninglow Street, Burton-on-Trent. 475,441.
- "SHAVOSAN"; for all goods (48). By W. J. Thorold, 83 Pall Mall, London, S.W.1. 475,893.
- "FLAMINGO" under picture of same; for brushes and combs (50). By C. J. H. Mackenzie-Kennedy, 9 Trebovir Road, Earl's Court, London, S.W.5. 474,375. (Associated.)

(From "The Trade-marks Journal," February 9, 1927.)

- "GLYTHOID"; for a pharmaceutical preparation (3). By Schieffelin & Co., 170 William Street, New York, U.S.A. 474,700.
- "DR. MADAUS" facsimile signature; for all goods (3). By Dr. Madaus & Co., Heinrichstrasse, 175-175b Radeburg, Bezirk Dresden, Germany. 475,079.
- "XETAL"; for surgical instruments, etc. (11). By Safety Glass & Xetal Products, Ltd., Nottingham Road, Stapleford, Nottinghamshire. 475,070. (Associated.)
- "VI-RO-MA"; for essences (42). By Jane W. Brown, 2 Cluny Terrace, Edinburgh. 476,258.
- "LOUINARD" and "LOUBERNA"; for perfumery, etc. (48). By Louis & Bernard, Ltd., 50 King Street, Manchester. 476,371/372.
- "REJUVENATA" over silhouette of nude figure under umbrella ("Rejuvenata" disclaimed); for perfumery, etc. (48). By J. Morant, Ltd., 25 Moorgate, London, E.C.2. 472,743.
- "FLAKO" with device of flakes falling into bowl; for goods (47) and for perfumery, etc. (48). By John Knight, Ltd., Silvertown, London, E.16. 475,605/606. (Associated.)
- "COTY"; for perfumery, etc. (48). By Coty Société Anonyme, 23 Place Vendôme, Paris. 476,212. (Associated.)
- "INTAGLIO"; for perfumery, etc. (48). By The Dubarry Perfumery Co., Ltd., Hove Park Villas, Hove, Sussex. 476,466.

(From "The Trade-marks Journal," February 16, 1927.)

- "RALUCO" with device of letter "R" and spark ("R" disclaimed); for chemicals (1). By Raluco, Ltd., 49 Queen Victoria Street, E.C.4. 476,036.
- "KARLAC" on device of circle on oblong ("Karlac" disclaimed); for chemicals (1). By P. M. Walker, Ltd., 18 Cloth Hall Street, Huddersfield. 476,617. (Associated.)
- "ETERNITAS" over picture of Sphinx; for chemicals for embalming, etc. (2). By J. B. Lladós, Ronda San Pedro 25, Barcelona, Spain. 467,331.
- "SOLEBROL" for disinfectants and pest destroyers (2). By I. G. Farbenindustrie Aktiengesellschaft, Mainzer Landstrasse 28, Frankfurt a/Main, Germany. 473,057.

## Information Department

### INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

H/92. Ammon. iethiosulph. (English manufacturers)	S/152. Italian rubber syringes
S/152. Bronchocseptol (London supply)	M/92. Lacto-Cream face cream
A/162. Clarke's Paregoric Mixture	R/162. Liq. Bisalatin
A/142. Codofer	B/15a. Sander's Skin Specific
M/122. Hygeia vacuum flasks	L/172. Smither's rubber bandages
	B/152. Thermotie wool
	M/172. Universal spray



## Observations and Reflections

By Xrayser III

### It is Useful

to know that the General Medical Council's registrar is prepared to reply promptly to inquiries respecting prescribers, and by telephone where possible. One can quite understand, however, that he would prefer to receive inquiries in writing. The trouble is that this takes time, and there may be good reason for the patient requiring the medicine in a hurry. Chemists may be unfairly accused of the delay, and I think that any difficulty likely to be caused on this account should, in the circumstances, be anticipated by prescribers, as medical practitioners of good repute can do much to avoid doubts arising in the minds of dispensers. An interesting point in Mr. King's letter (*C. & D.*, February 19, p. 236) is his reference to the fact that it is the appearance of his name in the current Medical Register which makes a practitioner legally qualified. In pharmacy we usually assume that the practitioner is legally qualified from the moment he receives his examination certificate, possibly from three to twelve months before the next issue of the Register of Chemists and Druggists is due to appear.

### Are Scottish Judges

more mercifully disposed towards accused persons than English ones? I asked myself the question after reading your report (*C. & D.*, February 19, p. 215) of a case in the Glasgow Sheriff Court, where a medical practitioner was charged with an offence under the Dangerous Drugs Acts. In dismissing the case, the sheriff commented on the fact that this was practically the third time the respondent had been charged with what was apparently the same offence. In the first instance the complaint had been dismissed as irrelevant, an appeal was then initiated and abandoned, after which fresh proceedings were brought! It was pointed out by the sheriff that the Crown had a high privilege in the matter, but the exercise of it had caused obvious hardship by compelling the respondent to incur double and substantial cost in defending himself so far. The use of the concluding words makes me wonder whether there is some prospect of this persecuted doctor having to meet the same charge again. This case reminds me of other recent ones in which judicial tenderness was manifested towards respondents in Scottish cases under the Pharmacy Acts. But doubtless the explanation is to be found in the common-sense view of unduly drastic laws and regulations, which is apt to manifest itself when trained lawyers with a keen sense of justice find themselves confronted with the absurdity of inadvertent offences being treated as wicked crimes. This has happened lately both in Hull and Glasgow. Let us hope that it will continue to happen in those and other places where anything like persecution is attempted.

### Health Insurance

is certainly not national in the sense that the same conditions apply equally in all parts of the country. So far as the position of chemists is concerned, there are very marked differences in the conditions applying in Scotland as compared with England and Wales. Then we have the anomaly to which you direct attention (*C. & D.*, February 19, p. 227) of certain things being allowed in some districts as "proper and sufficient medicine" while they are disallowed elsewhere. In Scotland the powers that be are loth to allow doctors to prescribe proprietary preparations, because their use tends to swell the drug bill. Some Insurance Committees in England and Wales, while not going so far in the direction of prohibition, fix limits to non-tariff drugs and medicines which may be supplied, and bar articles which you refer to as standing on the border line between medicines and foods. While strongly opposed to undue centralisation such as would subject us to greater bureaucratic control, I am quite of opinion that it ought not to have been left to Insurance Committees, or local bodies of any kind, to decide what is "proper and sufficient medicine." The same general rules in this respect should apply in all parts of Great Britain, if only in common fairness to insured persons.

### That Eccentric Physician,

Dr. William Kitchiner, died on February 26 a hundred years ago. He is remembered chiefly by his cookery book, "The Cook's Oracle," but his versatility extended beyond the bounds of the culinary art. This particular book appears not infrequently in the second-hand book shops, indicating that it must have had a wide circulation when it was originally published. From the seventh edition, which appeared in 1823, we learn that 15,000 copies had been sold during the previous year; and new editions were being issued as late as 1831. Those who have had the curiosity to turn over the pages of this book will see that Kitchiner wrote other works quite as entertaining as his cookery book. Among them are "The Housekeeper's Oracle," "The Art of Invigorating and Prolonging Life," "The Traveller's Oracle," "Practical Observations on Telescopes," "Health without Physic," "The Loyal Songs of England"; and he edited "The Sea Songs of Charles Dibdin." In several respects he affords a parallel to the late Sir Henry Thompson, who was above all an eminent physician (which cannot be said of Kitchiner), but who was also an adept in what Thomas Walker ("The Original") called Aristology. In this respect both agreed in sharing with their friends the pleasures of the dinner table. Their interests in astronomy were also alike. Whether Thompson possessed the taste for music to the same degree as Kitchiner I cannot say, but he married a lady who was a distinguished pianist. Kitchiner was himself an able and accomplished musician. Their dinner parties were the great feature of their social activities. Thompson's "Octaves" and Kitchiner's "Committee of Taste" are characteristics of the history of English gastronomy in the nineteenth century. The introduction to "The Cook's Oracle" is an excellent introduction to the history of cookery. It contains also the formula for those famous "Forty Peristaltic Persuaders." It is remarkable that no one puts on the market his savoury ragout powder and his soup-herb powder, which should find much favour with housewives.

### There are Various Standards

by which we may measure the differences between these days and the "good old times." Your article in the Commercial Compendium on insect powder suggests a means of estimating the progress which has been made in domestic science. The control which the housewife now exercises in the matter of household pests exceeds everything that her predecessors of a hundred years ago could have even imagined. In the good old days the lady of the house always had in her repertory of recipes several for the extermination of the undesirable visitants which were an almost unending cause of annoyance and anxiety. It is interesting to compare the methods employed 250 years ago with the simple and effective preparations of to-day. In a volume of recipes published in 1685 there is a chapter on "How to drive away Fleas, Punaises, and other Insects." These are some of the recipes:—"To destroy Punaises, take Juice of Wormwood, and Common Oyl, boil together till all the Juice be consumed; then strain the Oyl and cast it into live Sulphur, and with this Oyl rub the Bed and Craneyes." "Otherwise:—Take the Gall of an Ox and Oyle of Hempseed, mix them together and rub the joints and wood of the Bed and never any Punice come." "Another way:—Steep Oxes Liver in Strong Vinegar and wash your Bedstead, and lay some great Comfrey under your Boulster. *Probatum.*" "To destroy the Fleas:—Upon a pound of white Copperas, pour a Bucket of Water, and when the Copperas is sunk, sprinkle your Chamber with that Water." "Otherwise:—Sprinkle the Chamber with Decoction of Rue mixed with Asses' [urine]. *Probatum.*" A hundred years ago preparations of sulphur, arsenic and solutions of turpentine and camphor were used for *Cimex*, and decoctions of wormwood, fresh pennyroyal leaves, and fumigations of sulphur for fleas.



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## Editorial Articles

### The New Rumanian Pharmacopœia

WHOLE chapters have been added to history since 1893, the date of publication of the third edition of the Farmacopea Română, and from a state of 53,472 square miles, with a population of 7,000,000, the enlarged kingdom of Rumania now comprises an area of 122,282 square miles, with over 17,000,000 inhabitants. Within its borders are now included territories in which formerly the Hungarian, Russian and Austrian pharmacopœias were the official standards, while the number of pharmacies has increased from 290 to over 940. For many years past a complete revision of the pharmacopœia was felt to be an imperative necessity; as a temporary measure, in order to ensure uniformity in compounding prescriptions, the Rumanian Society of Pharmacists published a pharmacopœia in 1915, edited by Dr. C. Kollo, and in 1921 it issued a formulary of galenic preparations compiled by M. E. Belcot (reviewed in the *C. & D.*, 1924, II. p. 68). In 1923, Dr. A. Iteanu, president of the newly constituted Association of Pharmacists of Rumania, succeeded in inducing the Minister of Health and Social Protection to authorise the Association to prepare a new edition of the pharmacopœia, to be the sole official standard throughout the kingdom. In the same year a commission consisting of four pharmacists—Dr. A. Iteanu, MM. E. Belcot, G. Hotaranu, and A. Komornicki—was appointed to draw up a list of articles to be included in the new work, and in 1924 Dr. I. Vintilescu, Professor in the Pharmaceutical Faculty of the University of Bucharest, undertook the task of preparing the text; in fact, he may be regarded as the actual author of the new pharmacopœia. However, before embarking upon this task, Professor Vintilescu outlined the principles to be



followed in preparing the work (*C. & D.*, 1925, I, p. 97), and subsequently Rumanian pharmacists were given ample opportunities for discussing the monographs as they were drafted, at meetings of the Bucharest Circle for Pharmaceutical Studies. By this means criticism on a broad basis was invited; indeed, all interested in the new pharmacopœia were enabled to offer suggestions and exchange views as the work progressed. When completed, the manuscript was delivered to the Minister of Health and Social Protection, who then submitted it to a committee consisting of seventeen members, nine of whom were nominated by the Minister; of the others three represented the Supreme Health Council, and five the Chemico-Pharmaceutical Commission. Acting on the report drawn up by five members of this committee, the Minister of Health sanctioned the publication of the work, while a decree signed by King Ferdinand makes it the sole official standard throughout the whole of Rumania. The fourth edition of the Rumanian Pharmacopœia is a well-bound volume of 572 pages, measuring 9½ by 7 inches. With the exception of the official Latin titles and synonyms in French, German, Hungarian and Russian (the latter in Latin characters), the work is entirely in Rumanian. In the monographs devoted to chemical substances the formula and molecular weight are given, together with a brief mention of the source or mode of preparation, followed by a description of the characters and tests for identity, while the tests for purity are given in smaller type, with an indication of the impurities in italics, in parentheses. Where the use of a test solution included in the pharmacopœia is prescribed its title is followed by "(R)." In several instances a list of incompatibilities is included, together with special directions as to storage. Although thirty-three years have elapsed since the publication of the previous edition of the Rumanian Pharmacopœia, comparatively few of the newer remedies have been included; among the additions figure:—

Acetylparaminophenolum salicylicum (Salophen)	Guajacolum carbonicum (Duotal)
Acidum acetylsalicylicum	Hexamethylenetetraminum
Acidum diethylbarbituricum	Kalium sulfogujacolicum (Thiocol)
Adrenalinum solum	Morphinum æthylatum chlorhydricum (Dionin)
Æthylum amidobenzoicum (Anæsthesin)	Morphinum diacetylatum chlorhydricum (Heroin hydrochloride)
Argentum colloidal (Collargol)	Natrium glycerophosphoricum
Argentum proteinicum (Protargol)	Natrium methylarsenicum (Arrhenal)
Baryum sulfuricum	Novocainum chlorhydricum (Novocain)
Bismuthum oxyiodatum subgallicum (Airol)	Stovainum
Bismuthum tribromphenylicum (Xeroform)	Strontium bromatum
Calcium glycerophosphoricum	Strontium lacticum
Calcium lactophosphoricum	Tanninum albuminum (Tannalbin)
Chininum æthylcarbonicum (Euchinin)	Tanninum diacetylatum (Tannigen)
Creosotum carbonicum (Creosotal)	Tanninum methylenatum (Tannoform)
Dimethylamino-antipyrinum (Pyramidon)	Theobrominum natrio-salicylicum (Diuretin)
Ferrum glycerophosphoricum	

Where a brand name is given as a synonym, the fact that it is a registered trade mark in Rumania is indicated by the words "nume depus" in parentheses (=registered name). Tables of specific gravities and equivalent percentages are included in the monographs on hydrochloric, nitric, and sulphuric acid, solution of ammonia, potassium hydroxide, sodium hydroxide, and alcohol. The principles of sterilisation are described in a separate monograph, with directions for the sterilisation of ampoules. The majority of the tinctures are prepared by the maceration process; in some instances maceration or percolation may be adopted—i.e., tincture of cantharides, capsicum, digitalis, hyoscyamus, ipecac-

uanha, lobelia, strophanthus, and nux vomica. No organotherapeutic preparations or physiological assay processes figure in the work, since it is proposed to include these in a supplement to be issued later. The appendices include a table of atomic weights; a table of Baumé degrees and corresponding densities; lists of reagents, indicators, test solutions, and volumetric solutions; list of apparatus and utensils employed in analytical work, and also in the preparation of medicaments; notes on the determination of specific gravity, optical rotation, melting and boiling points, solubility, residue on incineration, acid, iodine, and saponification values; a table showing the number of drops per gram of various liquids delivered by the standard pipette, and the weight of each drop in milligrams; a table of official poisons to be kept in a locked cupboard, labelled with the title in white letters on a black ground; a table of maximum doses for adults, with directions for calculating the corresponding limit dose for children according to their age. The pharmacist may not deliver a medicine in which the maximum dose is exceeded unless the prescriber indicates that he is fully conscious of doing so by either writing out the amount in full, placing his signature under the amount, or by adding the words "sic volo!" In the absence of any definite indication of the prescriber's intention, the pharmacist must either communicate with him or reduce the dose; if he fails to take this precaution he shares the responsibility for the possible consequences with the doctor. This table is followed by general directions regarding the appropriate immediate treatment in cases of poisoning, together with a list of poisons and their antidotes, a Latin and a Rumanian index of titles and synonyms. A curious slip, which is not recorded in the page of errata, occurs twice in the monograph on hawthorn: in the official title, and also in the botanical source, the word *Crataegus* is spelt "Cartægus."

### The Position of Ipecacuanha

CONSIDERABLE interest has been shown in ipecacuanha during the past few weeks on account of the sudden increase in price of about 5s. per lb. Prior to the last drug auctions, and towards the latter part of last year, the market kept remarkably steady, but the price of Matto Grosso scarcely fluctuated more than 1s. per lb., in spite of a fairly active demand. The importance of having regular supplies of this drug for emetine preparations is universally recognised, and it therefore came as a sudden surprise to the market when it was announced at the last drug auctions that the collection of Matto Grosso had failed completely, and that prices had been advanced by importers by approximately 25 per cent. Several of the large consumers had, however, been warned some time previously of the unsettled conditions existing in the Matto Grosso district, and most of them had covered part of their requirements prior to the increase in price. The latest information from the Matto Grosso district, where the root is obtained, is that armed bands are wandering around the interior, and that martial law exists in many of the surrounding districts. The rebellious state of the country has for some time past created a very perplexing situation, and shippers who previously were willing to enter into forward contracts for shipment from primary source have steadfastly refused to enter into such commitments. This does not only apply to ipecacuanha, but to a number of other important commodities exported from Brazil. Apart from the present local troubles, the difficulty in securing ipecacuanha root in Brazil is increasing year by year, and this difficulty is not so easily surmounted, as the native collectors have to go further and further



into the interior with every collection. From the same district wild rubber is also obtained, and the large labour concentration on rubber during 1925 and in the early part of 1926, when very high prices were obtained, created a great scarcity of suitable labour for the collection of ipecacuanha. This factor, more than any other, explains the reason for the reduced imports and the declining supplies that are obtainable nowadays. This also applies to both the Minas and Johore (East Indian) root, especially the latter, which in former days used to arrive on the London market at frequent intervals in lots of twenty-five bales, always finding a ready sale on the Continent. Cartagena root, which during the past few weeks has come into prominence on account of the Matto Grosso shortage, is not at all favoured in this country, where the demand has always been extremely limited, but in the United States of America and on the Continent the demand is fairly active. It remains to be seen whether manufacturers who previously found little or no use for this variety will now through force of circumstances be compelled to use a certain proportion of Cartagena, although the percentage of emetine contained in this root is only slightly more than half that of Matto Grosso. We give below some interesting statistics showing the landings and deliveries in January, together with the position of stocks for the four varieties since 1922. The figures represent bales weighing approximately one cwt. :—

—	Stocks, Jan. 31, 1927	Stocks, 1926	Stocks, 1925	Stocks, 1924	Stocks, 1923	Stocks, 1922
Matto Grosso	79	144	279	222	228	559
Minas	—	—	2	2	41	59
Cartagena..	—	—	1	7	19	9
East Indian	—	—	—	7	28	27

Landed (January), Nil. Delivered (January), 50 (Matto Grosso).

#### LANDED TO DATE (JANUARY 31)

—	1927	1926	1925	1924	1923	1922
Matto Grosso ..	—	—	—	31	86	69
Minas ..	—	—	—	—	—	—
Cartagena..	—	—	—	—	2	—
East Indian ..	—	—	—	—	2	—

#### DELIVERED TO DATE (JANUARY 31)

—	1927	1926	1925	1924	1923	1922
Matto Grosso ..	50	40	50	33	56	49
Minas ..	—	—	—	—	—	—
Cartagena..	—	2	—	—	6	1
East Indian ..	—	—	—	—	—	19

A close survey of these figures shows how stocks have rapidly declined when compared with the figures of previous years, and they are to-day by far the lowest they have been for a great many years—in fact, the smallest most people can remember. Since the above figures were compiled further deliveries have taken place, and at the time of writing the whole of the London stocks of Matto Grosso in first-hands does not amount to forty bales. In these circumstances, and with little prospect of fresh arrivals of any importance for some time to come, we see little hope of prices easing. On the other hand, in spite of the fact that the seasonable demand is now on the wane, holders are remarkably firm, and in well-informed quarters it would occasion little surprise were the price of Matto Grosso substantially raised in the near future. In these exceptional circumstances buyers will be well advised not to leave their requirements uncovered, as there seems little to be gained by waiting. The prospect of lower prices for some time to come appears to be remote.

## Associations' Winter Session

**Belfast.**—A meeting of the North Irish Pharmacists' Association was held on February 16, the President (Mr. R. I. Edwards) in the chair. Mr. J. Taggart (secretary) read the report of the special committee on the system of prescription pricing. The present meeting had been called to discuss and introduce new system of pricing prescriptions. Mr. Todd said he was opposed to any alteration in the pricing system. The English system had been advocated in some quarters on the ground that the prices in Northern Ireland were too high. The present system seemed to be very fair, but the one sore point was that some members had not been loyal to the coding. The President drew attention to the rapid method in THE CHEMIST AND DRUGGIST. The costing method was also suggested, but that was one they adopted themselves. It would be disastrous to reduce their prices. The schedule had been running for many years, and was a very ready method if they would only code or stamp their prescriptions. Mr. Crossin said he thought the prices on the schedule were high. It was drawn up some years ago. Patent medicines and drugs had come down since then. To hold up prices in any ring or combine was to ask for trouble. There should be a uniform price for hospital prescriptions. Hospitals were threatening to set up externs for prescriptions if chemists did not see their way to charge reasonably. Mr. Taggart said there had been numerous complaints, not so much as to price, but as to the system of coding. Mr. McDowell said they got all the chemists in town to sign the agreement to code, except two firms. He had two bottles in his pocket charged 1s. 9d., although the price was 2s. 2d. or 2s. 4d. Out of six places he sent to, four refused to cut. After a lengthy discussion it was resolved to write each chemist asking him if he was willing to code at whatever price he charged. The members also placed on record that the schedule as at present arranged was satisfactory. It was further agreed that those who are not prepared to code after the replies come in should be waited on.

**Ealing.**—A meeting of the Ealing Pharmacists' Association was held on February 15. The President (Mr. F. A. Lawman), who occupied the chair, announced that a smoking concert will be held on March 29 in aid of the Benevolent Fund. Mr. John Noble then gave a dramatic sketch, entitled *A Day's Work in the Pharmacy*. A collection taken afterwards for the Benevolent Fund realised £1 10s.

**Public Pharmacists.**—The Guild of Public Pharmacists met on February 16, the Vice-President (Mr. F. E. Bullen) occupying the chair. The subject of *The Polariscope and Some of its Uses* was treated by Mr. C. H. Sykes, Ph.C., in a novel manner, his illustrations consisting of a fine assortment of lantern slides, coloured photograph and micro-polariscope slides prepared by himself. Its pharmaceutical uses were indicated in the examination of vegetable powders and in its use for estimation of sugar values.

**Women Pharmacists.**—The National Association of Women Pharmacists held a meeting on February 16, Mrs. Irvine (President) in the chair, when Mrs. Freke (member of Council) gave a short address on *The Pharmaceutical Council from a Woman's Point of View*. Afterwards Miss A. M. Wells read a paper on *The Care of the Hair*. The speaker first referred to the historical records of dressings for the hair and discussed the theory as to how man's original hirsute coat gradually disappeared. Miss Wells then dealt with the structure, the growth and the colour of the hair, dandruff, greasiness, dryness and baldness. Women appear to have a stronger growth of hair than men, but in the case of bobbed heads, as a brush is not used so frequently, the muscles do not get the stimulus afforded by brushing long hair; therefore they are apt to be sluggish, which must ultimately be detrimental to the hair; this is one of the chief arguments against wearing the hair short. Mrs. Irvine, in proposing a vote of thanks to the speakers, drew attention to the fact that Mrs. Freke was standing for election to the Pharmaceutical Council in May, and said that she would have the whole-hearted support of the Women's Association.



## BRITISH INDUSTRIES FAIR

London, February 21—March 4

THE London section of the British Industries Fair, 1927, opened at the White City, W.12, on February 21, and remains open till March 4. As in previous years, the Fair is organised by the Department of Overseas Trade, which has issued railway vouchers entitling the holders to special fares. The number of exhibits exceeds 900—an increase on last year's total. A Government banquet given at the Mansion House on the opening day was attended by the Prince of Wales, who in his speech suggested that British commerce should be conducted with enterprise, enthusiasm and imagination. Visitors who enter the Fair from Wood Lane will be able to glance first at the Imperial Institute exhibits, which, though commercially *hors concours*, include much of scientific and technical interest. Quite topical, for example, is the root of *Acokanthera ouabaio*, which yields 0.26 per cent. of ouabain; and there is a collection of chaulmoogra oil substitutes. The public are admitted daily (on payment) after 5 p.m., and on February 26 after 1 p.m.

## Drugs, Chemicals and Proprietaries

ACME CHEMICAL CO., LTD., draw special attention to their recently introduced worm-killing powder for lawns and their powder-spray insecticide for horticultural use. Specimens of the other products of the company are also on view in "Acme" weed-killer and waterglass.

ALBRIGHT & WILSON, LTD., have a world-wide reputation for the excellence of their brands of phosphorus and its compounds. That the purity of their non-phosphorus products—for example, carbon tetrachloride—is of the same high standard may be investigated at their stand. The last-named chemical, with potassium iodide, has recently been used for the colorimetric measurement of the intensity of ultra-violet radiation, and details of the process, as elaborated by Dr. S. Judd Lewis, Ph.C., may be obtained of the company's representatives in charge. Of general interest is the silicon ester for stone preservative work, and examples of treated material are shown.

FREDERICK ALLEN & SONS (POPLAR), LTD., have an extensive display of pure chemicals and acids (nitric and hydrochloric) for research work, in addition to such familiar products as Epsom salts, sal acetos, and calc. chlorid. exsicc. (fused lumps). Attention is also directed to fertilisers and insecticides.

AYRTON, SAUNDERS & CO., LTD., make their début at the Fair with a most interesting pharmaceutical exhibit, which is intended to appeal particularly to overseas buyers. The stand is in charge of their export manager, Mr. C. H. Bembridge. Messrs. Ayrtton hold numerous agencies for abroad, and the products are conspicuously displayed, including such well-known articles as Saville's June perfumery, Crookes' collosols, Gibson's lozenges (S. Africa only), and Coates' tooth-brushes. Messrs. Ayrtton's packed goods are chosen with an intimate knowledge of special markets, of which West Africa may be quoted as one of several typical examples. In the assortment of many packed products worthy of leisurely inspection may be noted Ayrtton's patent safety bottle teat, Pilosan pile ointment, palatable worm tablets, "Dispello" snuff in two packings, and "Seryit" elastic wrist strap. The various sizes of dressings are instantly visualised by the method adopted for exhibition purposes, and the same may be said of chemists' boxes.

A. BOAKE, ROBERTS & CO., LTD., have a practically complete range of the solvents, plasticisers, and artificial resins used in the manufacture of cellulose lacquers, which, it may be noted, are revolutionising the paint and varnish trades. This solvent industry is, as yet, in its early stages, but Messrs. Boake Roberts can give a guarantee of purity in accordance with the latest standards. The most recent products of the company

are diacetone alcohol (b.p. 164° C.), diamyl phthalate and pale, glycerin resin ester. A range of 240 fine chemicals is now manufactured by Messrs. Boake Roberts. Interesting examples of these, including several of which Messrs. Boake Roberts claim to be the only makers, are cinnamic alcohol, heliotropine (100 per cent.), and paraldehyde. A special show case is reserved for an interesting display of peppermint oils, menthol, menthyl valerianate and allied products.

BOOTS PURE DRUG CO., LTD., have a large stand filled with a variety of products skilfully arranged, so that the separate classes easily make their impression on the visitor. Research chemicals, such as diethyl malonate and hydroxylamine, claim a considerable share of attention; and closely allied to these are such salts as acriflavine and hexylresorcinol. Then there is an imposing "battery" of pills of many kinds variously coated, and of compressed tablets. Compactness triumphs in the urinetesting outfits, which are of about coat-pocket size. "Viule" ampoules and "Viule" capsules of amyl nitrite also merit mention as among the company's newer departures. Saccharin, long associated with the name of Messrs. Boots Pure Drug Co., naturally has prominence; and other features are the display of aspirin (including its tablets) and that of chloroform.

THE BRITISH DRUG HOUSES, LTD., have, as always, a display covering a wide range of pharmaceutical and fine chemical products. Among the former special attention is directed to Radio-Malt, a food which, while containing two irradiated oils, rich in vitamins A and D, and resembling malt extract, does not contain any cod-liver oil. The production of thyroxine, both synthetically and from the natural gland, is illustrated by means of charts. Other interesting exhibits include morhuates, alkaloids (among which ephedrine, the "natural adrenalin," occupies a conspicuous position), microscopic stains, indicators for the determination of hydrogen-ion concentration, and research chemicals. Of particular interest to pharmacists is the case containing B.D.H. specialties. Here are shown such well-known lines as æther puriss., duogen (H<sub>2</sub>O<sub>2</sub>), caprocol, soil-testing outfits, and many other specialties. The treatment of liver fluke in sheep has been the subject of much research during the past few years, and the experiments with male fern extract and carbon tetrachloride (recorded from time to time in the "Progress of Pharmacy" in the *C. & D.*) have demonstrated the superiority of the latter, provided, however, that it is of high quality, otherwise the medicament is dangerous. Under the name of tetraform the B.D.H. pack a particularly pure form of carbon tetrachloride in capsules, and a descriptive circular will be sent to any chemist interested.

W. J. BUSH & CO., LTD., have one of the largest and most varied exhibits in their section. Perfumery materials are well to the fore; then pharmaceutical chemicals—e.g., salicylic acid—claim notice; food colours, again, are a leading feature; and essences for mineral water manufacturers are on view. Specimens of such interesting chemicals as terpineol and sulphanilic acid are shown in generous bulk. The comparatively new industry of nitrocellulose varnishes and polishes is being catered for in the production of a range of solvents of which ethyl, butyl and amyl acetates are examples. Plasticisers are also exhibited.

THE GAS LIGHT & COKE CO. show a numerous series of coal-tar derivatives, including benzol products, carbolic acid and cresol testing 99 to 100 per cent. Betanaphthol is also extensively produced by the company, together with salicylic acid (B.P. and technical), bleaching powder, ammonia and Prussian blue. The stand is brilliantly illuminated by a number of gas "flood" lights, under which the various products revolve on a giant tray.

GRAESSER-MONSANTO CHEMICAL WORKS, LTD.—A prominent feature of the exhibit is the acetylsalicylic acid of three distinct types—crystal, powdered, and granular, the last-named variety being particularly suitable for tablet-making, as previous granulation is unnecessary.



Vanillin and saccharin are well-known specialties of the company. Among the other noteworthy articles are pure phenol (40° to 41° C.), salicylic acid (technical and B.P.), and other phenolic derivatives attractively arranged in ladder formation in giant glass tubes.

HOPKIN & WILLIAMS, LTD., are showing reagents for analytical and research purposes, prepared to specifications in "Analytical Reagents, Standards and Tests." Among the exhibits will be found adipic acid, hydrazine hydrochloride, mandelic acid, potassium hydrogen phthalate, and several organic sulphides and mercaptans. Messrs. Hopkin & Williams also show uranium salts, in which they specialise. Monazite sand products are dealt with by their associated company, Thorium, Ltd., who are showing a full range of thorium and allied salts.

HOWARDS & SONS, LTD., make a special feature of their new solvents—cyclohexanol (Sextol) used in the manufacture of textile, laundry and household soaps, as well as solvent soaps for dry-cleaners. Cyclohexanone (Sextone) is a "medium boiler" type of solvent for pyroxylin lacquers (b.p. about 150° C.) and also for gums and resins. Cyclohexanol acetate (sextate) is a high boiler type of solvent for lacquers and rubber. Diacetone alcohol is a useful two-type high boiler solvent. Striking specimens of many familiar "Howards" chemicals, the appearance of which suggests the quality for which they are noted, are shown, including synthetic thymol, caffeine, quinine sulphate and many B.P. salts.

IMPERIAL CHEMICAL INDUSTRIES, LTD., have the central position in the chemical section, as befits one of the largest businesses of its kind in the world, and adequate advantage has been taken of the numerous products to make the exhibit perhaps the most striking in the Fair. The central idea of the exhibit is to show how an intricate series of technical substances can be built up from such common materials as limestone, coal and brine. Rows of jars with specimens of the products in different stages are linked throughout by means of coloured wires, so that the whole represents an elaborate flow sheet from the raw material to products such as sodium bicarbonate, Glauber's salt, and, indeed, all the familiar heavy chemicals and acids. Another interesting exhibit on the same stand is a working model showing the coupling of sulphanilic acid with beta-naphthol, the end product being acid orange S. Brine drips into one vat and precipitates the dye, which is seen in the next small vat.

JOHNSON & SONS (MANUFACTURING CHEMISTS), LTD., show a complete range of photographic developers which include amidol, metol, pyrogallol acid and arol. Silver nitrate and gold chloride are also displayed, and an interesting range of "Scales" brand products gives an indication of the large number issued by the company under their well-known trade-mark.

The stand of the MALEHURST BARYTES Co., LTD., is of considerable interest in view of the many uses to which their barytes (supplied in four standardised grades) is being put. The uses that chiefly concern the drug trade are as an ingredient in dentifrices and in sealing wax; it may be added that barytes is being used, to the extent of 50 per cent., in making protective slabs for the walls of x-ray rooms, and, as is generally known, in the rubber and other industries.

MAY & BAKER, LTD., manufacture chemicals of interest to every branch of the trade, and among those related to therapeutics are hypnotics, bismuth compounds, mercurials and bromides. The company has always held a prominent position in the manufacture of those arsenical products which have proved of value in the treatment of syphilis and of tropical diseases. Arsenobillon (606), novarsenobillon (914), and arseno argenticum (silver-salvarsan) have all been manufactured by them since the earliest days of their introduction into therapeutics. To these must now be added tryparsamide (an organic arsenic compound, the outcome of research in the Rockefeller Institute of New York), which is being successfully employed in the treatment of neurosyphilis and sleeping sickness. The manufacture of this product is carried on in this country solely by the company under licence from the Rockefeller Institute. Another product of the same category, which is finding increasing favour in the treatment of amoebic dysentery, is stovarsol, chemically known as acetyloxyaminophenyl-

arsenic acid. Stovarsol is supplied in the form of tablets for oral administration, and, possessing the advantage of absolute stability, may be kept for a practically unlimited period even in tropical climates. Stovarsol is of low toxicity, and its administration is said to cause no disturbance of the alimentary tract.

THOMAS MORSON & SON, LTD., in addition to showing the "wheels of industry" (*C. & D.*, I, 1926, p. 272), are demonstrating by means of a "powder fountain" the fineness of the particles of Osmo-kaolin and bismuth carbonate. A spray of the material is thrown up inside a glass case and the projected particles are seen as a fog. These colloidal powders, known as aerosols, are finding many applications in medicine and in technical operations. Among other products exhibited and of pharmaceutical interest are iodides, glycerophosphates and scale preparations.

SALT UNION, LTD.—The large number of products made from brine is attractively arranged around a model of the Winsford Vacuum works, where salt is refined in accordance with the most recent scientific knowledge. The latest addition to the series is iodised table salt, packed in bottles. Other products to which attention may be called are light carbonate of magnesia, calcium carbonate, sodium hypochlorite, and bleaching powder.

THE SOUTH METROPOLITAN GAS COMPANY.—This stand is the replica of an ancient tavern, "At the sign of the benzene ring," and it is intended to illustrate some of the chemical operations of the company. "Metro" creosote is used on the timberwork of the tavern, road tar on the path, and sulphate of ammonia on the crazy-paved courtyard. Conspicuously displayed are the "Metro" disinfectant fluid, black varnish, coal-tar and ammonia products, including benzene, naphthalene and anthracene.

THOMAS TYRER & Co., LTD., have an extensive display of bismuth salts—carbonate, subnitrate, subgallate, salicylate—of which they are one of the largest producers. Other interesting exhibits are nickel formate, previously only made in America and used in oil hardening by the hydrogenation process, and cobalt compounds, valuable siccatives for paint; enamel and linoleum manufacture. Messrs. Tyrer specialise in the acetate, resinate and linoleate of cobalt. Soda citrate, extensively used in dairy produce, is another important product of the company. Specimens of the usual scale preparations lend an interesting splash of colour to the stand.

WHIFFEN & SONS, LTD. (incorporating George Atkinson & Co., established in 1654), are showing a comprehensive range of chemicals, together with a few drugs. The cobalt and copper salts make a striking display, as also do the various shades of vermilion. Some of the crystals—e.g., those of potassium iodide and caffeine—catch the eye at once on account of their unusual size and brilliance, and there are several such features which repay close inspection. It is interesting to note that quinine has been manufactured by Messrs. Whiffen for more than seventy years, and strychnine for seventy-five years. For visitors of an antiquarian turn of mind there are some interesting old books containing entries dating far back in the company's history.

WILLIAMS (HOUNSLOW), LTD., are showing a full range of dyes in crystal and powder form, soluble in water, spirit or oil for use in many industries. Various articles are also shown to exhibit the application of the dyes. Special attention may be directed to the section of harmless colours for foods, which Messrs. Williams can supply to conform with the requirements of any country.

#### Toilet Preparations and Requisites

ADDIS & SON have a practical display of tooth-brushes and brushes for dental plates—practical in that it includes a demonstration of an actual manufacturing process. This is always a popular feature, and it serves to show that the making of these brushes is not an easy matter.

W. B. CARTWRIGHT, LTD., are making an inclusive display of Elfrida toilet preparations, which comprise perfume, vanishing cream, talcum powder, and, indeed, the whole of the usual range of a modern brand series of such goods. The labelling and general style of the Elfrida series is very attractive, and it was not surprising



that the stand had several visitors when the *C. & D.* representative called.

GLADYS COOPER'S BEAUTY PREPARATIONS, LTD., have a striking display of their specialities, the distinctive packing of which should appeal particularly to retailers who do a high-class trade. We understand that Miss Gladys Cooper proposes to be present at the stand on one or more days during the period of the Fair.

JOSEPH CROSFIELD & SONS, LTD., include with a large assortment of household soaps an interesting series of toilet soaps with diverse odours, among which are violet, lavender, jasmin, sandalwood and rose. Carbolic soaps for household and toilet uses are also conspicuously displayed, particularly to interest the export trade.

CUSSENS, SONS & CO., LTD., have one of the most attractive stands in the Fair, and the setting chosen for the display of the Mists of the Moon series of toilet articles is particularly effective. The exhibit also gives the impression that the company is well placed for supplying novelties in perfumery and soap, while for the more conventional lines, such as dusting powder and soaps, the prices are such as to be of interest to wholesaler and retailer. The latest development in soap is a low-priced, highly-perfumed tablet in transparent wrapping.

THE ERASMIC CO., LTD., have an attractive display of their well-known "Peerless" Erasmic soap and, following the popular trend of the day, have introduced a companion set of toilet adjuncts to complete the series. This includes perfume, face powder, lip-stick, compact powder, bath crystals, shaving sticks, cream and powder. "Himalaya Bouquet" series is for Eastern markets, and Old London lavender water is a favourite of perennial popularity. A patent unspillable sprinkler conserves the preparation for its legitimate application.

THE FENTON MANUFACTURING CO. have a comprehensive display of puffs (down and wool) and cognate requisites in many designs. Among other features of a well-arranged stand may be mentioned the "Camouflage" handkerchief puff, the title of which sufficiently explains its nature. (Its sales during January amounted to 56,592.) Compact powders and evening bags are also on view.

FLAMINGOES, LTD., were attracting a small crowd at their stand when a member of the *C. & D.* editorial staff arrived, and it was obvious that the demonstration in progress was making an impression. The Flamingo brush-comb is perhaps the chief feature of a versatile display, and the "obliquened" shaving sticks and lip sticks also claim their share of attention.

HINDES, LTD.—There are several attractive designs of hair-brushes for shingled hair on view at this stand. The bristles are "set" on a rubber cushion base, which tends to lengthen the life of the brush. Hair wavers that "rule the waves" are described as popular lines among those chemists who follow the latest developments in the beauty trades.

G. B. KENT & SONS, LTD., are able to claim the benefit of 150 years' brushmaking experience—a record equalled by few. Their stand contains much that cannot fail to strike the visitor, the tooth-brushes and other goods shown being of the high degree of finish associated with this old-established house.

CHARLES MIDGLEY, LTD., are showing a wide range of toilet and other soaps, among which *Medicura* soap, with its attractive wrapping, figures prominently. Other features of a well-judged display are Midgley's Crystal Bath soap and Midgley's Surprise Egg. A point is made of the supply of soaps with special wording to suit the requirements of customers.

SPENCER BROTHERS have a well-assorted selection of their latest novelties, including puffs with stork-pattern handle, cartoned velour puffs, and lavender sachets of the mascot type. The general appearance and finish of these goods is very attractive, indicating originality of design—a point which is certain to tell in competitive selling.

Among other houses exhibiting in this section are:—ALLWOOD BROTHERS (carnation perfume); A. BARKER (sachets); W. BOOTH (shaving brushes); THE BRITON BRUSH CO., LTD.; COUNTY CHEMICAL CO., LTD. (Hill's toilet specialities); DARWINS, LTD. (safety razors);

DENTAL MANUFACTURING CO., LTD. (instruments and tooth paste); DUNNIPS (toilet preparations); HENDERSON BROTHERS & CO., LTD. (brushware); LUMOS & CO. (galatix combs, etc.); THE REDIO CO., LTD. (complexion tinting cloths); ADOLPH SCOTT, LTD. (fancy hair brushes); A. SIMPSON (badger shaving brushes); SORBO RUBBER SPONGE PRODUCTS, LTD.; SOUPLEX, LTD. (safety razor blades); THE WILKINSON SWORD CO., LTD. (safety razors); H. A. WYATT (hair brushes and shaving brushes); ZO-GLO BEAUTY POWDER CO.

### Miscellaneous

Under the heading of scientific and optical instruments are included some fine exhibits of aeronautical, astronomical, meteorological and surveying apparatus; but as regards spectacle-ware and opticians' supplies the number of exhibitors seems hardly to represent the trade. Those manufacturers who have taken space, however, have produced some highly interesting displays, as a visit to the following stands will show:—C. W. DIXEY & SON; WILLIAM GOWLAND (1916), LTD.; OGILVY & CO.; T. A. REYNOLDS, SON & CO.; ROSS, LTD.; SHORT & MASON, LTD.; WRAY OPTICAL WORKS, LTD.

Radio receiving apparatus and accessories again occupy a considerable amount of space; in fact, so many of the leading manufacturers are exhibiting that this section resolves itself into a miniature edition of the "Wireless Exhibition." There were, however, few lines which have not already received publicity, and of these one of the most interesting is the screening box and coils of the CAMDEN ENGINEERING CO., LTD. The prices, too, are more reasonable than those of many on the market at the present time. Other manufacturers exhibiting include BEARD & FITCH, LTD.; SYDNEY S. BIRD & SONS; S. G. BROWN, LTD.; CAXTON WOOD TURNERY CO.; J. J. EASTICK & SONS; EVER READY CO. (GREAT BRITAIN), LTD.; R. F. GRAHAM & CO.; LISSIN, LTD.; NEW LONDON ELECTRON WORKS, LTD.; THE TELEGRAPH CONDENSER CO., LTD.

W. & J. BURROW, LTD.—Malvern table water is the subject of an interesting exhibit at this stand, where bottles of the water (dated in one case 1881) have remained in surprisingly good condition. There are two varieties—still and sparkling—which are suitable for ordinary and sick-room use. Malvern water is also used for making lemonade and similar beverages, and no preservatives are needed, thanks to the nature of the water.

A. S. CARTWRIGHT, LTD., in addition to showing infants' soothers, are exhibiting a range of vanity boxes, containers and screw caps in aluminium, of which the actual manufacturers are Hussey, Dawson & Co. These products, which are of particular interest to manufacturing chemists, are available in a variety of designs and are well made.

CORRUGATED PACKING MATERIALS CO., LTD.—Some of the latest developments of corrugated paper may be seen, particularly in regard to cases. The idea of sending corrugated packages without lids has been adopted with great success in one particular industry, and others will probably follow suit, especially as corrugated cases are relatively cheap in initial cost and can be stored flat until needed, unlike the more expensive wooden cases. Another advantage is that pilferage is readily detected, and an insurance scheme can cover any possible damage. Many interesting varieties of corrugated paper are on view.

HOUGHTON-BUTCHER (GREAT BRITAIN), LTD., who are the sole representatives of the photographic trade showing cameras, have among their wide range of models a box-form instrument (2½ in. by 3¼ in.) of particular interest. Apart from its robust construction (it is made throughout of metal), this apparatus has two or three features which place it ahead of similar cameras. Known as the All-distance Ensign, the camera, owing to the special lens construction, takes subjects from ¾ feet to infinity; and when the exposure is being made, a simple arrangement at the back exerts pressure on the film and keeps it absolutely flat. The pressure is automatically released when the film is being wound. Another camera which offers good value is the Ensign Carbine No. 4 (Tropical). This, fitted with an *f*/7.7 lens, retails



at £4 15s. All the tropical models are now fitted with a chain handle instead of a leather one.

J. G. INGRAM & SON, LTD., have a well-placed stand exemplifying most, and possibly all, of the uses to which rubber is put. Air-cushions, hot-water bottles, teats, syringes and many articles outside the range of a chemist's stock form an instructive display.

R. W. PHILLIPS, LTD., show numerous specialities for which they are agents, including "Slipperine" ball-room polish and "Capsol" dyes. Toilet articles (soaps, perfumes, etc.) in variety are attractively displayed.

VENESTA, LTD., display specimens of boxes, cases, and barrels made of the specially light but strong Venesta three-ply wood, which have been found serviceable in many branches of trade. Venesta packages can be made to any shape, size or design.

WILLIAM A. WEBB, LTD., have a collection of scales and balances embodying many devices for securing increased precision and minimising strain. Among these may be mentioned a small pair of scales with glass cover, easily raised and lowered: the exhibit, however, should be inspected in order to appreciate the skill with which improvements on older types have been introduced.

Among other stands of general interest are those of:—THE ASSOCIATION OF BRITISH CHEMICAL MANUFACTURERS; "ATTRACTA" ELECTRICAL CO. (advertisement signs); BEAUFOY & Co., LTD. (vinegars, etc.); ALFRED BIRD & SONS, LTD. (custard powder, etc.); CADBURY BROTHERS, LTD. (cocoa and chocolate); WILLIAM W. CLELAND, LTD. (showcards, cartons, etc.); DEAN'S RAG BOOK CO., LTD. (window figures); EMERGEN FOODS CO., LTD.; GENERAL KAPUTINE SYNDICATE, LTD. (packed drugs); GRANOSE FOODS, LTD.; HARBUTT'S PLASTICINE, LTD.; HORLICK'S MALTED MILK CO., LTD.; HUNT LEIGH SHOWCARD CO.; L. LUMLEY & Co., LTD. (bottling machinery and soda fountains); J. LYNCH (artificial flowers); LYONS' INK, LTD. (marking ink and sealing wax); ALEX. MARKS (DUSTERS), LTD. (feather brushes, etc.); MECCANO, LTD. (toys); EDWARD MYERS (bottle brushes, etc.); PNEUMATIC RUBBER STAMP CO.; POLLARD & Co., LTD. (rubber stamps); FREDERICK SAGE & Co., LTD. (shop fittings); F. H. TAYLOR & SONS, LTD. (graduated glass measures); UNION JACK PASTE CO. (foot ointment); V. K. ROTARY CO., LTD. (Grip-Fix paste); VIROL, LTD.; X.L. SHOWCARD MACHINE CO., LTD.

## Dispensing Charges

Abstract of a paper by Mr. Thomas Wilson, Ph.C., read before the Edinburgh and South-Eastern Scottish Branch of the Pharmaceutical Society, on February 16, Mr. W. G. McNab in the chair.

The incident recently reported in THE CHEMIST AND DRUGGIST (November 20, 1926, 765), regarding the great variation in price of a prescription dispensed in Edinburgh and also in London, seems to indicate that pricing of prescriptions was not yet done on a scientific basis. In the old days the use of a flat rate was practically universal. A new principle, however, was introduced on the advent of the National Health Insurance Act, a costing method by which charge was made for the ingredients showing a trading profit and, in addition, a dispensing fee. The general adoption of this principle has often been advocated, but there seems a marked reluctance to adopt it *in toto*, and, so far, the majority of chemists seem to have in the main adopted a combination of the two methods, i.e., using a flat rate up to a certain value, and then a costing system when the price rose above that value. This eventually leads to some degree of confusion. In practice, the tendency is to rely more and more on the flat rate. It was simple and speedy, but it is open to at least three objections. In the first place it is not so simple as it looks. In many cases a casual glance and mental pricing of a prescription seemed to indicate that it came within the flat-rate figure; it would be charged for at that rate, when a further scrutiny would show that an adequate fee for dispensing had not been included. Many prescriptions near the border line were thus charged. When that happened it meant inadequate remuneration for the chemist. He

commended the contribution in the issue of THE CHEMIST AND DRUGGIST (referred to above), entitled "Making Dispensing Pay," as being worthy of the careful consideration of every chemist. The second objection was that the flat-rate system was unequal in its incidence, and here sometimes the public and sometimes the chemist got less than justice. It was urged that one prescription counter-balanced another, and that, in a case where the price for a mixture was obviously too high, that was compensated by the case where in more expensive mixtures the flat-rate figure was charged and no fee included. That seemed to him to be an unfair method. Why should one customer pay more in order that another might get his medicine cheaper? The third objection was that the flat-rate system was an antiquated system. It had served its day and had outlived its usefulness. It cannot be defended as an equitable system, and in many cases the prices cannot be justified. These are days of keen competition, and each department of a business has to stand on its own feet. Chemists cannot afford to be unbusiness-like. In the event of a change-over from this flat rate to a costing system, twenty average prescriptions were taken and priced respectively by several systems. The result was as follows:—

	£	s.	d.
Scottish Chemists' Retail Price List	1	10	0
C. & D. Tariff	1	9	3
S.C.R. Price List	1	8	11
R.P.U.	1	14	8
N.H.I.	0	19	8

For the sake of comparison the first two may be taken. The total amounts are nearly the same, but when the individual prescriptions were examined there was a good deal of variation; 1s. 6d. against 1s. 1d., 1s. 2d. against 1s., 10d. against 1s., 2s. 4d. against 1s. 6d., 2s. against 2s. 4d., 3s. against 2s. 1d. (The first-mentioned figure refers to flat rate and the second C. & D. Tariff.) Of course, this examination is not claimed as exhaustive; it would require 2,000 or 20,000 prescriptions to give sufficient data, but he claimed that it not conclusive, they were extremely suggestive. He thought a strong case had been made for abandoning the flat rate and using entirely a costing system. The fact of the final totals being so approximate showed that nothing would be lost, and the advantages would be very great. The costing system was equal in its incidence. People got what they paid for, and paid for what they got. Each transaction stood on its own feet. It was a scientific system, and those who used it were on solid ground. They could justify their charges. If a customer questioned a price, it could be explained that the principle was reasonable, and was, in fact, used elsewhere. One could buy a tap washer for 3d., but if the plumber had to fit it the charge would probably be: "Washer 3d., time 1s. 9d." It was an answer to the periodical criticisms in the public Press, and could be defended with success in a court of law. Any clever lawyer could play havoc with the flat-rate system and reduce it to ridicule. There were, and there would be, difficulties, such as the dispensing of proprietary medicines, etc., but in the present discussion he thought they should concentrate on the main principle. He was not so much concerned at present with the amount of dispensing fee (which should be adequate) as with the system itself. Pharmacy had a dual character. It was at once trading and professional, and these two sides were represented in the costing system. There was a trading profit on the drugs and a professional fee for services rendered. They were proud of the standard of dispensing in Scotland, and in this matter they should be professional. He was confident that if this more scientific system was universally adopted it would be in the highest interests of pharmacy.

After an interesting discussion Mr. Wilson said someone had suggested that he might undertake to formulate something on the subject, but he advocated the referring of the matter to the Committee. He would willingly give any help he could, but could not claim to be an expert. This suggestion was adopted.

LIME OIL EXPORTS.—A recent Colonial Report states that the export of products of the lime industry of the Leeward Islands during 1925 included 46,349 lb. of essential oil of limes, valued at £19,785.



## How Insulin is Isolated

Abstract of a paper, entitled "Insulin and its Manufacture," read before the Royal Society of Arts, on February 23, by Mr. F. H. Carr, C.B.E., F.I.C., Dr. H. H. Dale, F.R.S., in the chair.

MR. CARR, who dealt exhaustively with the subject, first gave a review of the experimental work leading up to the isolation of insulin by Banting and Best in 1922, passing on to consider the properties of the substance on which methods of purification depend. Proceeding, he said: The most characteristic property which is used for separating it from accompanying impurities is precipitation by adjusting the acidity of the solution exactly to PH 5. By reason of their amino groups polypeptides are alkaline and by reason of their carboxyl groups they are acid. There is a point in the process of neutralisation when neither the amino group nor the carboxyl group is bound by acid or alkali respectively. This is the iso-electric point, and by precipitating with absolute alcohol and then re-precipitating from dilute solution with picric acid, and finally taking advantage of this iso-electric precipitation, repeating the process if necessary, a white powder may be obtained which has an activity such that a unit is represented by 1/20 mg. Abel has, however, carried the purification further by precipitating with pyridine from acetic acid solution, and he claims to have produced a substance of which 1/100 mg. represents a unit. Moreover, his product was a crystalline substance melting at 233° C. Purification cannot be carried out by Abel's process without considerable loss, and for every gram of Abel's material probably one ton of pancreas would be required. Abel states that sulphur is an integral constituent of the molecule. There is one well-known amino acid of the body which contains sulphur; this is cystine, a substance readily obtained from hair or wool. Will the insulin molecule be found to possess similar grouping? he asked. He then discussed the effects that insulin produces in the body.

### THE MANUFACTURE OF INSULIN

For the purpose of manufacture there is used ox, pig or sheep pancreas available from abattoirs. Almost immediately after the death of the animal a loss of insulin through proteolytic action begins, for although during life the insulin remains in the tissues apparently unaffected by the trypsinogen, soon after death the latter becomes activated and the islet tissue becomes transfused by dissolved enzymes. Their action may, however, be arrested: (1) by the addition of alcohol of such a strength that the enzyme is precipitated; (2) by bringing the temperature below zero; (3) by rendering the fluid more acid than PH 3.5 by the addition of sulphuric or hydrochloric acid. The preparation of insulin comprises extraction and subsequent purification. During the extraction and early stages of purification every advantage must be taken of these methods of delaying the rate at which its natural destruction proceeds. Once the destroying enzymes have been removed, the substance is stable if kept sterile. In outline the method of preparation consists of:—

- (1) Procuring, dissecting and cooling the pancreas glands as rapidly as possible after the death of the animal.
- (2) Grinding or mincing at a low temperature to break up the cells very thoroughly.
- (3) Rendering the material acid to PH 2.5 or alkaline to PH 7.0, in order to set free the insulin from the tissue on which it is absorbed.
- (4) Extracting it with alcohol of such a strength that but little of the enzyme is dissolved, and as much as possible of the insulin. For this purpose alcohol of 65-70 per cent. has so far proved the best solvent.
- (5) Clarifying this extract by cooling it to -5° and filtering or centrifuging it.
- (6) Concentrating at a low temperature to 1-10th of its volume, extracting the fat and filtering.
- (7) Precipitating the proteins with ammonium sulphate or with absolute alcohol at PH 5.
- (8) Precipitating the protein mixture by adjusting the aqueous solution to PH 5.2. Proteins which are precipitated above and below PH 5.2 do not merely dilute insulin but are antagonistic to its action. This purification is consequently of great importance.
- (9) Finally, formation of the picrate and regeneration as a hydrochloride by Dudley's method. By this means alone

90 per cent. of the inactive protein may be removed from some samples of crude insulin, since, although insulin when pure may be almost completely precipitated at its iso-electric point, the presence of accompanying proteins tends to keep it in solution, even at this point.

Purification is thus effected by combining the use of precipitants, such as picric acid and ammonium sulphate with iso-electric point precipitation.

### EFFECT OF INSULIN ON SUGAR

It is only within the past year that by a clever and interesting piece of work by Best, Dale, Hoet and Marks it has been shown what happens to the sugar when it disappears from the blood under the influence of insulin.

The sugar is not entirely used up, since the increase in the amount of carbon dioxide given off by the body or of oxygen taken up by it is not sufficient to account for all the sugar which disappears. Where then does it go? Best, Dale, Hoet and Marks showed that the loss of sugar is completely accounted for by conversion into glycogen and by combustion. In a series of experiments which called for the highest skill and ingenuity they were able to construct a balance sheet based on actual chemical analysis which accounted for the whole of the sugar passed into the animal together with that originally present before the administration of insulin.

		Weight of Sugar		Loss
		Before insulin	After insulin	
Liver	...	3.124	2.252	0.872 grams
Muscle	...	4.48	3.36	1.12
Sugar injected	...			1.58
				<hr/>
Blood sugar	...	.630	.060	3.672
				0.570
				<hr/>
Total	...	...	...	4.242
<i>Glycogen calculated as Sugar</i>				
		Before insulin	After insulin	Increase
Muscle	...	10.178	11.186	1.003
<i>Sugar calculated from Oxygen used</i>				
Blood	...		3.079	3.079
				<hr/>
Total	...	...	...	4.037

The main part played by insulin both in the healthy and diabetic man or animal is therefore to promote the storage of sugar in the form of glycogen and also its oxidation of sugar. In normal metabolism some sugar is formed in the liver, from protein and possibly from fat. Dale and his colleagues have shown that insulin depresses this formation in the liver of glucose from protein and fat. In the diabetic and probably also in the normal individual sugar is produced from fat, but in the diabetic certain abnormal products of fat metabolism are formed, namely, aceto-acetic acid  $\text{CH}_3\text{COCH}_2\text{COOH}$  and acetone  $\text{CH}_3\text{—CO—CH}_3$ , and these are excreted in the urine. There is frequently also present what is obviously the parent substance of these two compounds, namely, hydroxybutyric acid  $\text{CH}_3\text{CH}(\text{OH})\text{CH}_2\text{COOH}$ . These substances result from the oxidation of fats. Not only, therefore, is a diabetic unable properly to dispose of carbohydrate, but the fat is not oxidised to the normal end products  $\text{CO}_2$  and  $\text{H}_2\text{O}$ . Insulin treatment causes the rapid disappearance of aceto-acetic acid as well as of sugar from the urine. It seems likely that insulin acts primarily upon the sugar metabolism, and that fat metabolism cannot proceed normally without simultaneous occurrence of the former process, but we have to await the final elucidation of this and a host of other problems of a similar nature. The discovery of insulin has given a new and very valuable method of investigating body metabolism, opening out a vast field for research. The elucidation of the chemical nature of insulin itself is the step to be most profoundly desired. It may be that this would involve the destruction of as much as £1,000 worth of insulin, but the priceless contribution to human happiness which the discovery of insulin represents makes even that expense appear to be but a grain of sand on the seashore. Once we understand the chemical nature of insulin, it is not too much to expect that the history of adrenalin and thyroxine will be repeated and insulin like these two substances will be manufactured artificially.



## Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, February 24.

BUSINESS in Mining Lane produce continues on the quiet side, but prices generally are firm: this applies particularly to Matto Grosso ipecacuanha. Senega is still advancing at the source. Copaiba is very firm, and good quality balsam Canada is still scarce. A further duty has been imposed on cannabis Indica by the Indian Government. Ergot, Alexandrian senna pods, and opium are easier. The demand for essential oils continues slow, only moderate quantities being wanted. Star anise has been sold at slightly cheaper rates on the spot. Sicilian oils (lemon, bergamot and orange) are dearer. West Indian lime has also advanced. Ceylon and Java citronellas are dull and easier. Paraguayan petitgrain is easier to arrive. Bourbon geranium is cheaper at the source. There are few changes among pharmaceutical chemicals, the demand for which is on limited lines. Aspirin meets with a fair business; citric and tartaric acids are firmer. Resorcin and phenazone are steadier. Among industrial chemicals there are few price changes, business being of moderate volume. Acetone is in more request, and oxalic acid is scarce and dear. Cresylic acid remains very firm, while naphthalene and pitch are cheaper. Benzols are higher, and solvent naphthas lower. Among the so-called vegetable oils business has been slow, with the exception of rape, which is higher. Castor is higher, but very dull; coconut, soya and Hankow wood are easier. Linseed is easier forward, and turpentine is much cheaper.

Higher	Firmer	Easier	Lower
Albumen (Chin. egg.)	Benzol	Anise (star) oil	Citronella oil
Bergamot oil	Citric acid	Ergot	(Jv.)
Castor oil (Eng.)	Clove oil	Geranium oil	Coconut oil
Cotton oil	Digitalis leaves	(Bour.)	Naphthalene
Lemon oil	Orange oil (Sic.)	Ground nut oil	Naphthas
Line oil	Rape oil	Mercury	(solvent)
	Resorcin	Mustard seed	Petitgrain oil
	Rubber	Opium	(Parag.) (c.i.f.)
	Tartaric acid	Rosewood oil	Pitch
	Zinc products	Senna pods	Resins
		(Alex.)	Turpentine
		Soya oil	
		Thymol	
		Wood oil	

### Cablegrams

NEW YORK, February 23.—Business is fair. Senega has advanced 2c. per lb. to 82c. Belladonna root is dearer at 18c. per lb. Gentian has advanced to 9c. per lb. Oregon balsam of fir is higher at \$1.50 per U.S. gallon. Stramonium leaves have advanced to 18c. per lb. Mercury is dearer at \$103 per flask. Lower quotations are made for American peppermint oil, in tins, at \$4.10, Cartagena ipecacuanha at \$3.40, and short buchu leaves at 47c.

BERGEN, February 23.—The catch of cod since the opening of the season amounts to 5,600,000, against 5,900,000 at the corresponding period of last year, and the yield of steam-refined non-freezing oil is 7,094 hectolitres, against 10,136 last year. The market for finest steam-refined non-freezing Lofoten oil is quiet at about 125s. per barrel, c.i.f. London.

### Crude Drugs, etc.

ALBUMEN.—Buying on a considerable scale by the confectionery trade is forcing up the price of Chinese egg albumen. No replies to cables this week to Shanghai are forthcoming; it appears that a substantial advance in price is imminent. Spot values are from 2s. 9d. to 2s. 10d. per lb.

ALMOND OIL.—French sweet is dearer at 3s. 7d. to 3s. 8d. per lb., and for peach kernel 2s. 5d. is quoted.

ANTIMONY was irregular. English high-grade remains at £74 10s. to £75. A little business was done in Chinese refined, and spot terms are about £56 10s. to £57, while parcels afloat were held for £45. C.i.f. terms from China are nominal at around £53. On c.i.f. terms crude is quoted at £34 per ton.

ARAROB.—To come forward on the basis of 50 per cent. about 1s. 10d. per lb. c.i.f. is quoted. It is practically unobtainable on the spot.

BALSAM CANADA is still scarce, with good bright offering at 5s. 2d. per lb.

BALSAM TOLU.—The stocks of the cheap lots have now been practically disposed of, and holders talk of 3s. to 3s. 1d. per lb. for good bright.

BELLADONNA LEAVES are dearer at 75s. per cwt. c.i.f., and for root, testing 0.5 per cent., 65s. per cwt. c.i.f. is quoted.

CANELLA ALBA is nominal at 1s. 2d. per lb.

CANNABIS INDICA.—We understand that Indian exporters will only offer subject to the receipt of licence from this country, obtainable from the Home Office. Meanwhile there has been a further duty imposed on the drug by the Indian Government amounting to approximately a further 2s. per lb. There have been several inquiries for Bombay tops on the spot, but the stock is now practically cleared, with the probability that a very limited quantity is available at about 27s. to 27s. 6d. African is quoted at 2s. 3d.

CARAWAY SEED.—Dutch is steady and unchanged, prompt shipment offering at 38s. per cwt. c.i.f.

CASCARILLA.—Good quill is still scarce, offering at 4s. 6d. to 4s. 9d. per lb.

CLOVES are firmer, Zanzibar selling at from 8½d. to 9d. per lb. on the spot; near at hand has been sold at 7½d. c.i.f.; February-April shipment and March-May has also been sold at 8d. to 8½d. per lb. c.i.f. The landings in London during the week ended February 19 were 1,046, and the deliveries 349, leaving a stock of 8,493 bales, against 13,972 bales in 1926, and 12,585 bales in 1925. Up to February 19 the landings of Zanzibar in London have been 3,091, against 1,644 in 1926, while the deliveries amount to 2,201, against 1,872 last year.

COD-LIVER OIL.—Our Bergen correspondent wrote on February 21: The total output of all the Norwegian cod-fisheries, compared with that of the previous years, is as follows:—

	To	Catch of cod	Yield of steam-refined cod-liver oil	Livers for crude oils
Feb.	12, 1927	3,500,000	4,385 hectol.	597 hectol.
"	13, 1926	3,900,000	6,460 "	1,591 "
"	14, 1925	2,400,000	4,586 "	3,578 "
"	16, 1924	3,000,000	6,593 "	2,219 "
"	10, 1923	2,400,000	4,335 "	2,504 "

The market is firm. Non-freezing steam-refined quality is quoted at 128s. to 130s. per barrel, c.i.f. London, but holders have withdrawn, anticipating the further development of the catch. Last week's catch was hindered by stormy weather. In London, cod-liver oil is on the easier side, finest new offering at 120s. to 125s. per barrel c.i.f. There is a fair inquiry, further fishing results being awaited with interest.

COPAIBA remains very firm at 2s. 2d., and as supplies are getting into much smaller compass, the price is likely to advance further.

CORN PRODUCTS, ETC.—Guaranteed water-white glucose (corn syrup) is unchanged at 22s. 9d. per cwt. for prompt delivery, ex store London, duty paid. Dutch maize starch powder (cornflour) is 15s. 6d. per cwt. on the spot. American, for prompt delivery, is 16s. per cwt. net, ex store, London. Pearl starch is 15s. 6d., ex store, London. Dutch maize starch crystals is 22s. 3d. on the spot, and American for prompt delivery is 19s. 6d. per cwt., ex store, London. Dutch dextrin is 22s. to 22s. 6d. per cwt. for superior. American canary for prompt delivery is 19s. 3d., and white 19s. per cwt., ex store, London. Dutch farina is 17s. 9d. per cwt. on the spot, and 17s. 3d. per cwt. f.o.b. for February-March shipment.

DIGITALIS LEAVES are firmer at 85s. per cwt. c.i.f. to arrive. There is practically none on the spot.

ERGOT is easier, with a demand for small lots only, which are selling at 3s. 6d. per lb. on the spot for Russian or Polish, and for forward shipment 3s. 3d. to 3s. 4d. c.i.f. is quoted.

GALLS.—Persian are steady at from 75s. to 77s. 6d. per cwt. on the spot. Chinese are rather dearer, February-March shipment offering at 57s. 6d. c.i.f. for good ordinary shaped, and 60s. c.i.f. for plump shaped.

IPECACUANHA continues firm, with fair business passing in Matto Grosso at 20s. per lb. Importers are not inclined to sell more than a few bales, and the tendency is for a further increase in price should no fresh arrivals take place. Cartagena is steady at from 16s. 6d. to 17s. 6d., according to quality. The position of the article is dealt with editorially.

LYCOPodium.—Treble sifted is quoted at about 3s. 3d. per lb. on the spot.

MAGNESIUM.—There is a fair inquiry at current rates ranging from 3s. 9d. to 4s. 3d. for small ingots and sticks, and powder is quoted from 5s. to 6s. 3d., according to quality.

MALE FERN EXT. is quoted at about 4s. 9d. per lb. on the spot for usual test 24 to 25 per cent. filicin.



MENTHOL is dull, Kobayashi-Suzuki being offered at 17s. 3d. per lb. January-March shipment sellers quote 17s. c.i.f.

MERCURY.—There has been but little business done and the tendency was somewhat easier. Quotations range from about £17 7s. 6d. to £17 12s. 6d. per bottl., less the usual discount. While the outlook as regards supplies does not hold out much hope of any material setback in the price, buyers are naturally prejudiced by the high cost and purchases are from hand to mouth. In the meantime there is a fair supply.

NUX VOMICA.—There is practically nothing available on the spot, the recent arrivals having been sold to arrive. Cocoon is quoted at 13s. 6d. per cwt. c.i.f., and Calcutta at 11s. per cwt. c.i.f.

OPIMUM is cheaper from the source, usual Turkey druggists' quality offering at 2s. 2d. per unit. The following report has been received from Turkey:—

CONSTANTINOPLE, February 14.—“During the past fortnight arrivals consisted of:—Druggists', 2,206; ‘softs’, 173; and Malatia, 343 cases. Stocks amounted to:—Druggists', 765; ‘softs’, 106; and Malatia, 343 cases. Sales included 85 cases druggists' at £27-30.75, and two cases ‘softs’ at £29, which had no influence on the opium market. On the other hand, the sale of 2,500 bales of mohair during the past fortnight has had a tremendous influence on the price of opium. This was due to the fact that individual sellers of mohair, who also hold about 100 cases opium, declared their intention of investing the proceeds from the sale of mohair in opium, with the result that this prospect exerted a paralysing influence on all transactions. To-day buyers and sellers do not know what price they should quote, since all eyes are fixed on the movements of the mohair sellers, who are on the ‘bull’ tack. Heavy snow has fallen in Turkey during the past days, thus protecting the sowings from the cold. In about a fortnight's time we shall be able to form some opinion regarding the next crop. So far the morphine factory has not shown any signs of activity.”

ORANGE PEEL is getting scarce on the spot, with sales of good thin cut so-called Maltese at 1s. 10½d. to 1s. 11d. per lb., and sellers at the higher price.

ORRIS.—Florentine is offered at about 34s. 6d. per cwt. c.i.f. to come forward.

PARSLEY SEED.—English is quoted on the spot at 95s. per cwt.

RUBBER is decidedly firmer, and spot has been done up to 1s. 7½d. per lb. The firmness is due to the “squeezing” of the February position, which is apparently oversold, and the better feeling in the market following the announcement in Parliament by the Colonial Secretary on the question of restriction. Business, however, has been small, and manufacturers continue their “hand-to-mouth” policy. For the first time for many months stocks have ceased climbing, and last week the increase amounted to only 23 tons, which is insignificant. The London stock now stands at 56,962 tons. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and March, 1s. 7½d., April 1s. 7½d., April-June 1s. 8d. per lb.

SEEDS.—The market continues very quiet with prices unchanged. ANISE: Spanish is 49s. and Russian 70s. CANARY SEED: Mazagan is 17s. 6d. on the spot and 16s. 9d. for forward shipment; good bold Spanish is 30s. and small 23s. 6d. CUMIN SEED: Maltese is 30s. to 32s. 6d. spot, and Morocco 28s. to 29s. per cwt. CORIANDER SEED is firm at 28s. spot. FENUGREEK SEED is firm at 15s. 6d. DILL SEED is 21s. 6d. HEMPSEED: Manchurian is 16s. 6d. to 17s. on the spot. LANSSEED: Mazagan is 20s. 9d. on the spot. MUSTARD SEED: English is 31s. 6d. per cwt.

SENEGA remains very firm and is still rising at the source, 2s. 6d. c.i.f. being quoted to-day, but the spot values are from 3s. 6d. to 3s. 7d.

SENNA PODS.—Alexandrian are cheaper, with good hand-picked pods offering at 4s. 6d. per lb.; fair No. 2 at 2s.; good hand-picked Timnevelly pods offer at 10½d., varying down to 4½d. for fair average quality.

SHELLAC is steady, usual standard TN orange quality offering at 195s. per cwt. on the spot; fine orange is 215s. to 300s., pure button 227s. 6d. to 255s., AC cakey 195s. to 202s. 6d. To arrive TN for February-March shipment has been sold at 185s. to 184s. c.i.f. Sales for delivery include March at 188s. to 187s., May at 191s. to 192s. 6d., and August 193s. 6d. to 195s.

SQUILL.—Fair white is obtainable at 20s. per cwt. on the spot, but there is not much available at this figure. This is one of the drugs that it is now unremunerative for dealers to import.

STRAMONIUM LEAVES still remain in short supply, the price of good green Hungarian being from 65s. to 70s. per cwt. on the spot.

STROPHANTHUS.—Kombé (100 per cent.) is available at about 5s. 3d. per lb.

VANILLA.—The demand continues moderate, and spot values are unchanged at about 13s. 6d. to 14s. per lb. for Bourbon cuts 6 to 7 in. Some holders quote rather higher prices.

## Essential Oils

ESSENTIAL oils are in limited demand this week, only small lots being in request. Star anise is slightly easier, Sicilian oils are dearer, Java citronella is cheaper, and Bourbon geranium is lower to arrive for new crop; West Indian lime is held for higher rates. Paraguayan petitgrain is cheaper.

ANISE (STAR).—“Red Ship” on the spot has been sold at 2s. 10d. per lb. For shipment quotations are unchanged from last week.

BERGAMOT.—Higher prices are again coming forward from the source at from 28s. to 28s. 9d. per lb. for 37 to 38 l. a. On the spot, holders are quoting from 28s. 3d. to 28s. 9d. as to seller.

CAJUPUT is quoted on the spot at 2s. 6d. per lb. in cases.

CASSIA is quoted on the spot at 7s. 6d. per lb. for 80 to 85 c.a.; in some directions this would be shaded for a line.

CITRONELLA.—Ceylon is dull and unchanged at 1s. 5d. per lb. on the spot and 1s. 3½d. to 1s. 4d. c.i.f. Java is cheaper to arrive at 1s. 9½d. c.i.f. and 1s. 10½d. on the spot.

CLOVE.—More active demand has been experienced recently following the decline in cloves, and distillers have contracted for delivery well ahead. The Madagascar crop has been practically a failure, so French distillers will probably find difficulty in competing, for some time. Following a further advance in the spice, English distillers quote from 6s. to 5s. 9d. per lb. for druggists' quantities. B.P. oil. Bulk quantities for manufacturing purposes, 90 to 92 per cent. eugenol are 5s. 3d. in large drums.

EUCALYPTUS is slow of sale; 70 to 75 cineol is quoted at 1s. 9d. per lb. High percentage is still scarce, and 1s. 11d. was reported paid recently for 80 to 85.

GERANIUM.—Bourbon on the spot is unchanged at from 10s. 6d. to 11s. per lb., according to seller and quantity. Lower prices are coming forward for new crop, which is now being produced. Algerian is dull and easier at 10s. 3d. to 10s. 6d. on the spot, shipment prices being still considerably above this level.

LEMON.—Forward quotations are dearer at from 9s. to 9s. 2d. per lb. c.i.f. for some brands. Round about 8s. 6d. c.i.f. was current during the week. On the spot, holders report business at 8s. 10d. per lb., up to 9s. being asked.

LIME.—Sales of West Indian sweet are reported at 27s. 6d. to 28s. per lb., and in one direction supplies are held for 31s. Inquiries appear to be considerably in excess of supplies, and another season of high prices is expected.

MANDARIN is quoted on the spot at from 23s. to 23s. 6d. per lb.

ORANGE.—Quotations for Sicilian oils again appear to be higher this week, the current range for sweet being from 9s. 3d. to 9s. 6d. per lb. c.i.f. and upwards. On the spot there are sellers at 9s. 6d. West Indian sweet is quoted at 8s. to 8s. 3d., according to seller.

PALMAROSA is steady at from 8s. 9d. to 9s. per lb. in pots.

PATCHOULI.—Rather easier quotations are made for usual quality Penang oil at from 38s. to 39s. per lb.

PEPPERMINT.—American natural tin oil is quiet at from 18s. to 18s. 6d. per lb. c.i.f. as to brand; spot is 18s. 6d. to 19s. Japanese dementholised is steady at 7s. 6d. January-March shipment is firm at 7s. 9d. c.i.f.; buyers at 7s. 6d. c.i.f.

PETITGRAIN.—Paraguayan on the spot is quiet at 7s. per lb. For shipment, 6s. 6d. c.i.f. is quoted for five-case lots, being easier.

ROSEMARY.—Good quality Spanish is scarce on the spot, and 2s. 3d. per lb. is quoted for quantity.

ROSEWOOD (BOIS DE ROSE) is dull and easier at from 9s. 6d. to 9s. 9d. per lb.

SPIKE.—Spanish is slow of sale at from 3s. 8d. to 3s. 9d. per lb.

VETIVER.—Bourbon is on the easy side, being obtainable at from 38s. to 39s. per lb. For quantity less would be accepted.

## Pharmaceutical Chemicals, etc.

THE volume of business being transacted is still on limited lines, but seems fairly well distributed. Prices show little change. Those articles due for exemption from liability to Key Industry duty are short in supply and firm on spot. Tartaric acid is firmer, and citric acid is also moving up owing to stronger conditions on the Continent. Salicylates are barely steady.

ACETANILIDE shows no change, with B.P. crystals and powder quoted at about 1s. 6½d. per lb. for quantities; business rather quiet.

ASPIRIN.—The tone is firm at from 2s. 4½d. to 2s. 5d. per lb. for best brands. Isolated secondhand lots might be slightly cheaper. A fair business has been done.

BARBITONE is quite neglected, with the spot price about 8s. 3d. per lb.; uncertain forward.



BENZALDEHYDE (0.03) remains dull at about 1s. 9d. per lb. for quantities.

BENZOIC ACID (B.P.).—British is steady at 2s. 5d. to 2s. 4d. per lb., *ex works*; Continental, p.f.f.c., 3s. 6d. spot; fair business.

BENZONAPHTHOL is quiet at about 3s. 3d. per lb.

BROMIDES are unchanged; business has not been of much account: ammonium, 2s. 1½d.; potassium, B.P. crystals and granular, 1s. 9d. to 1s. 9½d.; sodium, B.P., 1s. 11d. per lb. for large quantities.

CALCIUM LACTATE meets with a steady inquiry, with spot at 1s. 3d. per lb., and slightly less for quantities to come forward.

CHLORAL HYDRATE is very steady at 3s. 2½d. per lb. for duty-paid crystals.

CITRIC ACID (B.P. crystals).—While there may easily be some secondhand parcels offering at lower rates, the recognised sources of supply are firming up their prices owing to stronger conditions on the Continent. New continental is now quoted at 1s. 3½d. per lb., less 5 per cent.

CREOSOTE (B.P.) continues steady at 1s. 9d. per lb. in demijohns.

CREOSOTE CARBONATE is quiet at about 6s. per lb.

GUAIACOL CARBONATE is irregular at about 6s. 3d. to 6s. 5d. per lb.

HEXAMINE varies according to grade; the market is steady, with a little more interest shown by buyers. Free running crystals, about 2s. 5½d.; small crystals or powder, 2s. 4½d. per lb. for quantities.

HYDROQUINONE remains slack at about 3s. 11d. to 3s. 11½d. per lb.

LACTIC ACID (B.P.) continues steady at controlled rates: one-ton lots, 2s. 4½d.; ten-cwt., 2s. 5d.; 2 to 3 cwt., 2s. 6d.; under 2 cwt., 2s. 6½d. per lb.

METHYL SALICYLATE (B.P.) is unchanged, but is barely steady: spot, 1s. 6d. to 1s. 6½d. per lb., according to quantity.

METHYL SULPHONAL.—The market is practically suspended pending the issue of the order exempting it from liability to Key Industry duty; prices nominal.

MILK SUGAR.—Dealers' prices show no change, with the market steady: quoted from 60s. to 63s. per cwt. in cases.

FARAFORMALDEHYDE (100 per cent. powder) is dull but steady at about 1s. 9d. per lb. for quantities in kegs.

PARALDEHYDE is unchanged at 1s. 1½d. to 1s. 3d. per lb., according to quantity and packing; business slow.

PHENACETIN.—The position is very difficult owing to delay in issuing the Treasury Exemption Order: spot, powder and crystals, 3s. 10d. per lb.; uncertain forward.

PHENAZONE.—A shortage of spot supplies is reported, and prices seem to be firmer at 5s. 11d. per lb. for that position; uncertain forward.

PHENOLPHTHALEIN remains rather quiet but is steadier: quoted at 6s. 1d. to 6s. 3d. per lb. as to quantity, spot.

POTASSIUM PERMANGANATE (B.P.).—Business does not amount to much at present; prices are very competitive in the region of 6d. per lb. for quantities in drums.

POTASSIUM SULPHOGUAIACOLATE is nominal and neglected: quoted from 5s. to 5s. 6d. per lb.

RESORCIN is rather firmer, and business has been on a better scale; little is now offering under 4s. 5d., while small lots are fetching up to 4s. 4d. to 4s. 5d. per lb.

SALICYLIC ACID (B.P.) continues quiet and is tending to become unsteady: quoted from 1s. 4d. to 1s. 4½d. per lb. as to quantity.

SALOL continues irregular, with sales down to 3s. per lb. for quantities; quoted at 3s. 2d. per lb.

SODIUM BENZOATE (B.P.) continues bright, with the price steady for good quality material at 1s. 8d. per lb. Second quality would be a little less.

SODIUM DIETHYLBARBITURATE remains quiet, with dealers quoting from 9s. per lb.

SODIUM SALICYLATE (B.F.) is unchanged on quotation, but is barely steady at these rates: crystals, 1s. 10d.; powder, 1s. 9½d. per lb. for quantities.

SULPHONAL is neglected at about 10s. per lb.

TANNIC ACID.—B.P. *teriss* is offering in kegs at 2s. 8d. per lb.; smaller parcels from 2s. 9d. to 2s. 10d. per lb.; market rather quiet.

TARTARIC ACID (B.P. crystals).—A move to firmer conditions is taking place, with most recognised sources for supplies of Continental putting their price up to 1s. 0½d. per lb., less 5 per cent. Reports from the Continent justify the higher prices for all positions.

TERPIN HYDRATE is in poor request: quoted from 1s. 6d. to 1s. 8d. per lb.

THYMOL has been quiet in most directions, and the little business transacted has been done at about 11s. 6d. to 11s. 9d. per lb.

VANILLIN shows no change on quotation, with 100 per cent. from clove oil at 18s. per lb.; less might be taken for large orders.

During the period February 10 to 15 inclusive the following imports of chemicals have paid Key Industry duty:—Acetic acid, glacial, £358; acetyl salicylic acid, £186; benzyl benzoate, £232; butyl alcohol, £1,641; carbon tetrachloride, £597; cocaine hydrochlor., £112; ethyl chloride, £110; glycerophosphates, £580; hydrastine, £651; isopropyl alcohol, £230; oxalic acid, £370; papaverin, £118; phosphorus oxychloride, £165; quinine ethyl carbonate, £450; vanillin, £548; undescribed chemicals, £1,654.

### Industrial Chemicals, etc.

London, February 23.

FAIRLY bright conditions govern industrial chemicals. Prices slow but very little change, and business, although only moderate in volume, continues to flow steadily. Acetone has settled down and is in much more request. Arsenic is disturbed by outside competition. Oxalic acid is scarce on spot and dear.

ACETIC ACID continues very steady, with the usual business passing: 80 per cent. technical and pure, £37 per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demijohns; glacial, in barrels, £56 per ton, *ex wharf*.

ACETONE has been much brighter and prices are more settled, in the region of £53 per ton for B.G.S., in drums, *ex store*.

ARSENIC has shown some irregularity, and the tone seems firm for white Cornish at £17, f.o.r. mines, on the basis of which fair-sized lots are being disposed of, but for small lots terms have been secured varying up to £17 5s., and even £17 10s. Japanese is offered in fair quantities for shipment at £16 10s. c.i.f., while a fair number of offers of Mexican have been reported at £16 c.i.f.; Belgian is £16 2s. 6d. per ton f.o.b.

COPPER SULPHATE is firm, with the larger makers asking £24 5s. to £24 10s., f.o.b., for casks, less 5 per cent., but there are sellers outside of the Association down to £24. The market seems to be largely regulated by Continental competition.

CREAM OF TARTAR is about the same, with not much being taken up. Dealers' prices for German and Italian range from 81s. to 83s. per cwt., less 2½ per cent., spot and forward.

FORMALDEHYDE is unchanged; business, however, is still limited: 40 per cent. by volume, £40 5s. per ton, *ex wharf*.

LEAD PRODUCTS.—Market closed very steady after a week of moderate business. Lead acetate, spot, brown, £41 5s.; white, £43 15s. per ton, in casks, *ex store*; red lead, imported, £34 15s., c.i.f. London; white lead, dry, £34; ground in oil, £35 15s., c.i.f. London.

OXALIC ACID.—The price on spot is nominal owing to lack of supplies. Importers and consumers are awaiting the issue of the Treasury Exemption Order lifting key industry duty.

POTASSIUM CHLORATE is quiet and irregular at from 3½d. to 3½d. per lb., according to quantity.

POTASSIUM PERMANGANATE is quiet, and the little business for commercial is done at cut rates of 4½d. to 5d. per lb., in drums.

SODIUM HYPOSULPHITE is unchanged; business is still dull: dealers quote pea crystals at £15 7s. 6d. per ton, in one-cwt. kegs; commercial lump at £9 per ton, in casks, *ex wharf*; British makers' price for pea crystals to home consumers, £15 5s. per ton, carriage paid to buyer's station.

ZINC PRODUCTS.—The tendency has been firmer in response to the substantial rally in metal. Zinc oxide has been in fair demand, and large makers are asking about £34 up to £42 per ton, delivered, *ex wharf*. Zinc dust ranges from £40 to £47 10s. per ton. Zinc ashes are £11 to £12, according to percentage of purity.

COAL-TAR PRODUCTS, ETC.—Some further reductions in prices are recorded, the only bright item being cresylic acid, which holds very firm. Pitch and naphthalene are easier. ANILINE OIL is steady, with fair business moving: quoted at about 8d. per lb., in loaned drums, carriage paid. ANILINE SALT is unchanged at about 8d. per lb., packages extra, carriage paid. BETANAPHTHOL has been inquired for, with quotations at about 1s. per lb., carriage paid. TOLUOL is steady but in very small demand: pure, 2s. 6d.; commercial 90's, about 1s. 10d. per gallon, *ex works*. XYLOL remains dull: pure, 2s. 7d.; commercial, 2s. 3d. per gallon, *ex works*. CARBOLIC ACID CRYSTALS are fairly active and prices are well maintained at 6½d. per lb., f.o.b., for ice crystals. Japan is still buying good quantities. CRESYLIC ACID, 97 to 99 per cent., American specification, is very firm with business active: quoted at fully 2s. 4½d. per gallon, f.o.b., drums extra; Continental prices are dearer. CREOSOTE OIL is steady but still rather slack: *ex works*, 7½d., f.o.b.; 8½d. per gallon, in bulk quantities. NAPHTHALENE is dull and cheaper on quotation from the Continent at £14 2s. 6d. per ton, for flakes and



balls, f.o.b. Hamburg. Pure METHYL ALCOHOL is steady: one-ton lots, £47, in drums, ex wharf. PYRIDINE is neglected: offered at 10s. 6d. per gallon, f.o.b. PITCH remains very quiet and is not likely to show much activity now that the season is drawing to a close: quoted at about 100s. per ton, f.o.b. East Coast.

### Fixed Oils, etc.

BUSINESS generally has been slack, about the only exception being rape oil. Castor oil is dearer but very dull. Turpentine has now reached an unusually low level. Coconut, cotton and palm oils have been very dull. ACID OILS are irregular and dull: coconut, 37s. 6d.; palm kernel, 37s. 6d.; groundnut, 32s. 3d.; soya, 25s. 3d. spot. CASTOR.—Prices show a good advance, but the market has remained dull: British pharmaceutical, 54s. 6d.; first pressings, 49s. 6d.; second pressings, 47s. spot, in barrels, in not less than one-ton lots. COCONUT is cheaper, with the market dull: deodorised, spot, 49s.; Ceylon, 42s. 6d. c.i.f.; Cochin, 44s. 6d. c.i.f. COTTON is dearer, but is now dull: deodorised, 47s.; common edible, 45s.; soap-making, 42s.; crude, 38s. spot. GROUNDNUT has weakened and closes dull: deodorised, spot, 52s.; crude Oriental, 46s. c.i.f. PALM KERNEL is steady but quiet: deodorised, 47s. 9d.; crude, 42s. 6d. spot. PALM has been quiet all the week and quotations are barely maintained, closing unsteady: Lagos, 36s. 6d.; softs, 35s. 9d.; mediums, 35s. 4½d.; hard, 35s. 3d.; bleached, 38s. 9d. spot. RAPE shows a further advance, with the market firm: refined, 51s.; crude, 49s. spot. SOYA is quiet and a shade easier: deodorised, 41s. 9d.; crude, 38s. spot. LINSEED (raw, naked) has been quiet for all positions and is slightly easier forward: spot, 33s. 9d.; March-April, 31s. 9d.; May-August, 31s. 6d.; September-December, 32s.; boiled oil, spot, 35s. Hull, on spot 32s. 4½d.; March-April, 32s.; May-August, 31s. 10½d.; September-December, 32s. 3d. TURPENTINE has remained depressed, having been affected by a sharp drop in American quotations. Demand was very slow, but fair quantities changed hands at the reduced level, indicating a considerable setback as compared with a week ago, and the spot price closes at 45s. 3d.; March-April, 45s. 6d.; May-June, 46s. 6d.; July-December, 48s. The tone on Tuesday was a little steadier, with a rally from the worst. RESIN was a dull market again, with sellers making further concessions for shipment from the United States, and quotations were about as follows: B to E, 25s. 11½d. to 24s. 4½d.; F to G, 24s. 7d. to 25s.; K to M, 28s. 7d. to 29s. 2½d. and 2s. 10d.; W.G., 31s. 10d., and W.W., 37s. 2d. per cwt. Wharf terms command about 6d. more. WOOD.—Hankow on spot, in barrels, is easier at about 84s. per cwt.; market quiet.

LUBRICATING, MINERAL AND BURNING OILS, ETC.—Standard motor benzol is dearer, while solvent naphthas are much cheaper. Otherwise the market shows little change. Business has shown no marked improvement. BENZOL.—Business has been brisk and prices are slightly dearer: crude 6s. 1s. 4d.; standard motor, 1s. 9½d. to 1s. 10d.; pure, 2s. 6d. per gallon, in tank wagons. FUEL OIL is unchanged. PARAFFIN WAX and SCALE are at last week's easier rates. PARAFFIN OILS are unchanged. WHITE OILS.—Quoted prices are easy, with the market quiet: special No. 1, £26 17s. 6d.; No. 1, £25 7s. 6d.; No. 3 half-white, £22 5s.; No. 4 half-white, £16 5s. per ton, drums and barrels free, ex wharf. SOLVENT NAPHTHAS are slack and prices are much cheaper: 90 to 160, about 1s. 6d.; heavy 90 to 190, 1s. 3d. per gallon, naked, at works. PETROLEUM JELLIES are unchanged. LUBRICATING OILS.—The spot market and shipment conditions continue steady and business is moderate.

### Japan's Camphor and Menthol Exports

The following table gives the exports of camphor and of menthol, in piculs, together with the countries of destination, from Japan during the first seven months of 1925 and 1926:—

	Camphor		Menthol	
	Seven months ended July 31		Seven months ended July 31	
	1925 Piculs	1926 Piculs	1925 Piculs	1926 Piculs
British India .. ..	4,100	3,845	234	251
Great Britain .. ..	2,003	609	271	262
France .. ..	1,785	1,641	185	437
Germany .. ..	1,144	595	129	101
United States .. ..	7,799	6,990	1,365	2,190
Australia .. ..	555	642	—	—
Other countries .. ..	1,636	1,648	189	256
Total .. ..	19,022	15,970	2,373	3,497

### United States Drug Imports

The following table gives the imports of a number of drugs and chemicals, based on the figures published by the U.S. Department of Commerce, together with the principal countries of origin, into the United States during the month of September, 1926:—

	lb.		lb.
Cinchona .. ..	212,625	Oil, lavender and spike .. ..	11,624
Glycerin, crude .. ..	2,829,406	France .. ..	5,330
France .. ..	868,518	Spain .. ..	6,000
Germany .. ..	544,701	Oil, lemon .. ..	45,425
Great Britain .. ..	418,476	Italy .. ..	41,375
Belgium .. ..	336,290	Canada .. ..	3,500
Netherlands .. ..	290,279	Oil, orange .. ..	8,670
Spain .. ..	134,331	Italy .. ..	6,518
Argentina .. ..	102,274	Great Britain .. ..	1,027
Italy .. ..	53,200	Jamaica .. ..	850
China .. ..	43,810	Opium, crude .. ..	18,100
Glycerin, refined .. ..	1,223,019	Turkey in Europe .. ..	9,189
Germany .. ..	695,320	Greece .. ..	5,500
Netherlands .. ..	312,200	Turkey in Asia .. ..	3,411
Spain .. ..	133,341	Quinine sulphate oz. .. ..	176,000
Great Britain .. ..	49,030	Netherlands oz. .. ..	85,000
Argentina .. ..	33,128	Japan .. ..	71,000
Iodine, crude .. ..	35,095	Switzerland .. ..	20,000
Liquorice extract .. ..	107,683	Senna .. ..	736,448
Spain .. ..	96,763	British India .. ..	670,767
Liquorice root .. ..	3,919,751	Egypt .. ..	51,356
Iraq .. ..	3,364,428	France .. ..	14,325
Turkey .. ..	456,737	Strychnine .. ..	10,000
Nux vomica .. ..	313,588	(all from Germany)	
Oil, bergamot .. ..	11,258		
Oil, citronella and lemongrass .. ..	71,570		
Java .. ..	40,045		
Ceylon .. ..	31,505		

### West Indian Lime Industry

A REPORT on the economic and financial conditions in the British West Indies, which has been issued, states:—The lime industry of the British West Indies has suffered severely from the competition of Sicily. The Sicilian fruit industry is practically a government concern. It not only enjoys the advantage of a depreciated exchange, but it possesses a carefully devised system of marketing. Financial support is given to the growers by the Italian Government to tide them over periods when circumstances render it inadvisable to market their fruit. It is obvious, therefore, that the West Indian islands are severely handicapped in their efforts to compete against such an organisation. Apart from this, the lime industry of Dominica is now confined to the coast lands in consequence of the ravages of the witherip disease in the interior. Prior to the appearance of the disease the average annual crop shipped from the Colony represented 400,000 barrels of limes. The crop shipped in 1923 represented 223,000 barrels, and in 1924 a total of 424,000 barrels, which included a considerable "hold over" from the 1923 crop. Taking the average as a basis, the loss inflicted by witherip disease amounted to approximately 74,000 barrels of limes in 1923 and 1924. The loss is serious, and there is no doubt that the effect of the disease in the wet districts has been devastating, but in the coastal areas fair yields are still being obtained. The exports from the Colony for the year 1924 consisted of:—

	Value £
Limes .. ..	20,063
Concentrated lime juice .. ..	78,245
Raw lime juice .. ..	20,319
Distilled lime oil .. ..	8,563
Hand-pressed lime oil .. ..	4,558

As a result of the disastrous hurricane which swept Montserrat on August 28, 1924, the lime industry of the Presidency, already on the wane, was practically ruined. As regards St. Lucia, owing to uncertain markets, especially in Europe, it was found unprofitable to harvest limes far away from the factories. Consequently, there has been some neglect in cultivation, and exports have declined. High prices are, however, being obtained for lime oils, and this has helped to revive the interest in better cultivation. The exports from the colony of limes and lime products in 1924 amounted to 52,238 barrels. Hardly any attention is being bestowed at present on lime cultivation in Grenada. During the year 1924 the exports from this colony consisted of 7,331 gallons of concentrated lime juice of an estimated value of £1,605, and 110 gallons of lime oil valued at £187. The exports of concentrated lime juice from Trinidad in 1924 amounted to 7,505 gallons valued at £1,015, an approximate increase of 6,000 gallons, compared with the exports for the year 1923. During 1925, 655 acres were under lime cultivation in British Guiana, the total yield of concentrated lime juice being 8,235 gallons and 287 gallons of essential oil.





Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

### An Anomaly

SIR,—Will you please give some authoritative information as to the Pharmacy Acts and the Dangerous Drugs Acts with reference to dispensing physicians and their surgeries? Are they exempt from the regulations for storing poisons? I supply a surgery with small items daily, and their stock bottles come to be refilled. Lig. strych., cocain. hydr., morph. hydr., are kept on the dispensing counter in plain white bottles, merely labelled with the name in black ink on a white slip label. This dispensary sends out from 180 to 200 mixtures each Monday, and an average of 150 per day for the rest of the week. Included in their work is the dispensing of any other prescriptions their patients may require, and the supply of articles such as ether soap. The dispenser is unqualified by examination. The establishment I refer to is situated in a town of 13,000 inhabitants, which contains six chemists and two drug stores. I enclose a label from such a surgery. You will, I think, agree that it shows a disregard of the law and an indifference to public safety which would never be found in a chemist. If surgeries are exempted from the Pharmacy Acts, why? If not, why are they not inspected and forced to comply with the law?

QUANTHARIDES (19/2).

[The label enclosed states upon it: "The Pills, medinal gr. v." Doctors' surgeries are not subject to the regulations as to storage and labelling made under the Pharmacy Act, and need not employ as dispensers persons holding qualifications obtained by examination. The name and address of the doctor must appear on the label of any medicine containing a scheduled poison. Doctors' surgeries are not subject to visits by inspectors under the Sale of Food and Drugs Acts or Weights and Measures Act. In regard to the Dangerous Drugs Acts medical practitioners who dispense "dangerous" drugs must conform to Regulation 9 as regards records of the drugs dispensed. Doctors' surgeries are inspected by medical officers, who are required to give the doctor notice of their intended visit.]

### Drug Tariff Review

SIR,—One phrase, forming a part of one sentence of the letter from Mr. Arthur Mills, Eastbourne (*C. & D.*, February 19, p. 236) epitomises in a few words nearly the whole history of the sequence of events forming the negotiations for the terms under the drug tariff. "Half of them recanted, and accepted the situation." Truly, it is said that a chemist is a man who thinks in half-pennies and grains and is a species without a backbone. One point in Mr. Mills's letter I do not quite follow, and that is where he says that they asked for the compulsory clauses of the N.H.I. to be removed, thus making this service optional. Is it not optional already for any chemist to decide whether he will take on the contract or not? But possibly this is not his meaning.

Yours, etc.,

BOGIEMAN (21/2).

SIR,—I was pleased to read your editorial article (*C. & D.*, February 19, p. 226) dealing with the various anomalies under the Health Insurance Act when looked at from a national point of view, and particularly your remarks on the diversity of the formularies issued by the committees in different areas. Take, for example, such an old friend as mist. alb., the formula for which every apprentice knew off by heart as a matter of course in the old days; this *was* now been altered and added to until it is hardly recognisable under its old name, and a doctor who orders it without looking up his local formula might get a surprise if he tasted some

of the resultant product. Bismuth mixtures are in a hopeless muddle. These difficulties can be got over by one formula for all, the only thing to guard against being that it should not be allowed to become too bulky, as probably each area would demand the inclusion of its own favourite mixtures.—Faithfully yours,  
FORMULARY (22/2).

SIR,—In reply to the query of Mr. Mills, the paragraph drawing attention to the desire of Eastbourne panel chemists for additions to the tariff occurs in the *C. & D.*, January 8, p. 50, the items being trusses, camelhair pencils and throat brushes. (The fact was commented on by another correspondent in the subsequent issue.) The tariff has been described as a symmetrical, homogeneous and compensated whole; that it is further mathematically cut and dried there is not the slightest doubt. Its chief defect as a commercial proposition from our point of view is the undoubted fact that our establishment charges are grossly underrated—just about a third of what they ought to be; 0.8d. should be at the very least 2d.; thus, on this calculation, our fees should be raised from 4.5d. to 7d. This would give us some little return for our money invested. Still in other ways, thanks to the activities of the Society and the Union, pharmacy certainly wears some hopeful signs, but many suns will have set ere the golden age of pharmacy dawns, and we give up the habit of thinking in pennies. . . . It seems likely that we shall have to continue to serve "who only stand and wait."—Yours truly,

A. J. MERRIFIELD.

Chagford.

### Gift Schemes

SIR,—I was not surprised to read under Scottish News (*C. & D.*, February 19, p. 215) the account of the aftermath of the gift schemes. The giving of some free gift as the condition of the purchase of a certain article may stimulate the sales to an extent for the duration of the scheme, but it must inevitably cheapen that commodity in the eyes of the buying public, and when it comes to giving away one largely advertised article to each customer who purchases another article, equally well advertised, the average man when he gets home and thinks the transaction over may well ask himself how it can be done, and may also be forgiven if he comes to the natural conclusion that in the ordinary way he must pay about twice the real value of the goods when they are sold without a gift. A short time ago we were overdone with competitions as a means of advertising; but after a little while they fell very flat, only a very few customers taking any interest in them, and so they have almost completely subsided, and soon we shall no doubt see the death of the present vogue of gift schemes. I consider it a mistake for chemists to ally themselves with any of these advertising stunts. "Your chemist is more than a shop-keeper"; if we act up to that motto the public will have a much better idea of our capabilities, and will associate our pharmacy in their minds as a place where they can obtain reliable medicine and efficient service, rather than as a sort of superior sixpenny bazaar where they go for free gifts and a dip in the lucky tub.—Yours truly,

VALUE FOR MONEY (22/2).

### An Official Interpretation

SIR,—Panel chemists throughout the country will this week be receiving news, in the form of an instruction, of a new petty tyranny from the Ministry of Health. It concerns the use of aqua chloroform and aqua menth. pip., and runs thus:—

Prescriptions for medicaments containing chloroform water are to be interpreted by the chemist as indicating the solution of chloroform prepared in accordance with the following formula unless the prescription specifically indicates a contrary intention on the part of the prescriber. (Then follows the formula.)

I have previously protested, and do again, against this most undesirable procedure of "interpretation" of panel prescriptions. The Sale of Food and Drugs Act does not permit us to "interpret" what a purchaser should have, and this form of substitution applied to prescriptions for



insured persons is surely the last word in petty meanness and bad faith. Panel prescriptions must in future be dispensed not correctly, but as interpreted by the Ministry of Health. Were the R.P.U. consulted, and did they consent to this? If not, what are their instructions to Pharmaceutical Committees? It is intolerable that we should have forced upon us a form of official substitution in the dispensing of prescriptions. A nice corollary to a drug-testing scheme to ensure accuracy in dispensing to be told to depart from B.P. standards and use something cheaper! To save a few pounds we are called upon to discard all accepted ethics in the dispensing of medicines—a slippery slope which certainly will degrade all sound and safe pharmaceutical practice. There are right and wrong ways in effecting economies. This is utterly wrong.—Yours faithfully,

FRANK G. HINES.

York.

## Notes on the B.P. 1914.

SIR,—Many of us, like Professor Small (*C. & D.*, January 15, p. 71), were brought up on the 1898 British Pharmacopœia. Personally, I was brought up on a mixture of the '85 and the '98 editions, the latter coming into force during my term of apprenticeship. And now I have to work to the 1914 revision, which both in its manner of presentation and its revised formulas is by no means, to my mind, an improvement on its predecessors—although, perhaps, when we have been trained in a certain way we are liable to be prejudiced against any innovations. During the twelve years in which the present book has been official I have only come across one prescriber who attempted to use metric weights, and he was so hopelessly out of his depth that he gave it up after a day or two. The paper by Mr. Franklin is extremely interesting, because it deals with points which crop up in our daily work. Acid. phosph. dil. is always giving trouble, as even a small shop bottleful develops mould long before it is used. Acid. sulph. aromat. is, in my experience, never prescribed now, and it might well be deleted without loss. Calcium lactate is given as being "slowly soluble in 18.5 parts of water, forming a clear, colourless solution;" but unless it is freshly made it is difficult to dissolve, the resulting mixture sometimes giving cause for complaint. Ext. bellad. liq. gave rise to the old catch question on its dose, none being stated in the B.P.; but, as it is now included in Insurance formulae mixtures, presumably to save expense, a dose might be provided. Ext. glyc. liq. rarely provides two samples alike, either in fluidity or aroma, and any quantity of stock invariably leaves a solid deposit before it is used up. Lin. ammoniæ nearly always becomes unpourable on keeping; and the natural remedy, to add more liquid, only solves the problem for the moment, besides altering the strength of the product. Mr. Franklin gives an alternative formula, but does not say anything about the relative absorption of paraffin, liq. and almond oil. Mel depuratum is directed to be adjusted to a gravity of 1.36; the product, apart from not being one's idea of what honey should look like, is not suitable for working in some preparations; incidentally, when a customer asks for purified honey in a chemist's shop, is it compulsory to supply the B.P. product? Easton's syrup nearly always discolours on standing; is this in any way detrimental to the patient? Years ago I was called to account by a doctor for sending out a clear syrup; he expected it to have a brown colour, and said that I had not dispensed it correctly. Fortunately, I was able to point to "Martindale" on the subject; but it showed what he had been used to. With regard to ointments made with ung. paraffin, I fail to see why white wax was ever introduced into this base; if it is claimed to be for the purpose of stiffening the ointment to prevent running, why do hospitals prefer ung. acid. boric. made with soft paraffin only? There are many preparations which could well be dropped and their places filled by others which are in daily use—for instance, syr. glycerophosph. co., syr. hypophosph. co., Parrish's food, and others which will occur to every pharmacist.—Yours truly,

THREE PHARMACOPŒIAS (17/1).

## Legal Queries

*G. V. T.* (14/2).—The prescriptions you send are in order, though, as you point out, strictly speaking *tr. opii aquos.*, not being a B.P. preparation, should require amount of morphine stated.

*M. C.* (14/2).—A branch shop in which the business of a chemist and druggist is being carried on must be managed by a qualified person whose certificate or its equivalent is exhibited therein.

*Mac* (15/2).—The sale of the medicated preparation to which you refer requires a wine licence. The fact that you can produce a prescription from a medical man does not overcome the need for a licence.

*W. A. S.* (9/2).—A manager of a chemist's shop is entitled to at least a month's notice to leave. A case for three months' notice might be argued before the courts with a good chance of success.

*H. S. S.* (12/2).—"Baldness" and "dandruff" are not considered as ailments under the Medicine Stamp Acts, but in the wording of the labels care should be taken not to imply that these are diseases.

*S. S.* (15/2).—"Surgical Spirit," by which we understand a spirit for use in the sick-room made by permission from a formula approved by the Board of Customs and Excise, ceases to be industrial spirit, and can be sold without restriction.

*S. F.* (17/2).—employs a woman for an hour each day to clean out the shop before it is opened, for which he pays her 4s. 6d. per week. Must she be insured under the National Health Insurance scheme? [As the woman is regularly employed she must be insured.]

*J. L. S.* (14/2).—A bought a block of property from B, who has since left the country. A has received a demand for payment of arrears of rates. Is he liable to pay? [A cannot be made to pay rates due in respect of any period before he took over the property.]

*W. R.* (8/2).—By a concession granted by the Commissioners of Inland Revenue chemists may sell rectified spirit in quantities not exceeding 5 oz. at a time "to medical and scientific gentlemen for purposes of medical or scientific research." The concession applies to medical uses such as sterilising instruments, and dentists are placed in the same category as medical men.

*R. J. B.* (1/2).—(1) The question of the acceptance of the certificate of qualification of the Northern Ireland Pharmaceutical Society in other parts of the British Empire has not yet been raised. Persons holding the Northern Ireland qualification who desire to obtain recognition should apply to the secretary, who will take steps to obtain the same pronouncement as was obtained by the Pharmaceutical Society of Ireland. (2) Particulars of pharmacy law in Guernsey were given in the *C. & D.*, October 2, 1926, p. 558.

*C. W.* (9/2).—(1) Dental and veterinary prescriptions under the Pharmacy Act come under the same category as those written by physicians and surgeons, consequently the Arsenic Act does not apply. (2) Sale of arsenic other than by prescriptions to any of the three classes of practitioners is covered by the 1923 amendment of Section 17 of the Pharmacy Act, 1868, and requires a signed order. (3) Dealing with these practitioners it is not usual to colour white arsenic when it is being used for the purposes of their profession.

*J. B.* (12/2).—(1) The style of register for recording "dangerous" drugs is set out at the end of the Regulations made under the Dangerous Drugs Act, and the last column provides "when a sale is on a prescription specify the ingredients of the prescription." The concession for entry in the prescription-book with a cross-reference in the Dangerous Drugs register may be used. It is insufficient to file a duplicate of an Insurance prescription and merely make a reference in the Dangerous Drugs register. (2) "Usual signature" is one that a medical man ordinarily employs in his business transactions, say, on a cheque.



## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*Cosmos* (11/12).—TABLETS FOR RHEUMATISM.—These tablets are white and weigh 6.5 gr. each. We found them to contain 50.3 per cent. of acetanilide with starch as a diluent.

*B. & S.* (31/12).—CEMENT-SETTING LIQUID.—This solution is blood red and slightly syrupy in consistence. It appears to be water-glass solution diluted to a specific gravity of 1.23, and coloured with an artificial dye, possibly one of the ponceaus.

*W. T.* (4/2).—DEPILATORY POWDER.—This preparation, said to be of Indian origin, appears to contain 25 per cent. of barium sulphide and 75 per cent. of starch (probably rye).

*G. V. F.* (5/2).—ICING POWDER.—This powder consists of 40 per cent. dried egg albumen and 40 per cent. cane sugar. The accompanying description is that it is "used in place of egg white for royal icing for decorating bride cakes and is diluted at the rate of 2 oz. to 1 pint of water just off the boil."

*G. A.* (5/2).—We cannot supply the details of the "everlasting" flow from a barrel which is used as a window show.

*H. W. K.* (10/2).—MOTOR-CAR CLEANING LIQUID.—This preparation, stated to be of Continental origin, and used by spraying and rubbing off with a duster, consists of a thin paraffin oil, sp. gr. 0.89, coloured red with an alcohol-soluble dye and perfumed with citronella.

*D. C. J.* (10/2).—INSURANCE SURGICAL APPLIANCES.—Thermogene wool or capsicum tissue may not be supplied to insured persons at the cost of the drug fund. It has always been considered to be an appliance. There are only three varieties of cotton-wool included in the drug tariff—boric wool, sal-alembroth wool, and unmedicated cotton-wool. Thermogene would be disallowed just as would carbolic wool, because it is a variety of cotton-wool which is not specified in the second schedule of the Medical Benefit Regulations; that is an official decision. At the same time it must be admitted that the two cases are not strictly comparable. Thermogene wool takes the place of a medicament applied to the skin and covered with cotton-wool. Carbolic wool is merely an antiseptic dressing. The position might be compared with plasters. Adhesive plaster is an appliance pure and simple, but the medicated plasters in the drug tariff are classed as medicaments. They are used not simply as a dressing, but because of the medicament they contain, and this might be claimed for any cotton-wool impregnated with a preparation of capsicum.

*T. & S.* (15/2).—BAY RUM MADE WITH INDUSTRIAL SPIRIT.—See *C. & D.*, August 22, 1925, p. 288.

*H. J. C.* (15/2).—TRANSPARENT HAIR RESTORER.—

Lead acetate...	...	...	3j.
Saturated solution of sodium hyposulphite	...	...	a sufficiency
Glycerin	...	...	3j.
Isopropyl alcohol	...	...	3ss.
Rose-water to	...	...	3xx.

To the lead salt dissolved in 2 oz. of water add the solution of the hyposulphite until the precipitate formed is redissolved. Continue to add half as much more hyposulphite, then the rest of the ingredients.

*Mancurium* (16/2).—Eusol is probably the cheapest wound dressing, but is not suitable for use in every case where the skin is broken.

*W. P., Ltd.* (16/2).—LINOLEUM POLISH.—

I			II		
Palm oil	...	2½ oz.	White ceresine	...	1 oz.
Carnauba wax	...	5 oz.	Hard paraffin	...	2 oz.
Yellow ceresine	...	2½ oz.	Oil of turpentine	...	4 oz.
Oil of turpentine	...	40 oz.	Benzine	...	1 oz.

*B. P.* (16/2).—WHITE HARD SPIRIT VARNISH.—

Sandarac	...	...	2 oz.
White shellac	...	...	17 oz.
Yellow resin	...	...	2½ oz.
Spirit	...	...	4 pints

*T. B.* (17/2).—INFLUENZA POWDER.—You could safely pack salicin in 5 or 10 grain powders for influenza. The powder is quite safe, and if taken in milk is practically tasteless. One, two or three powders may be taken every four hours.

*J. F.* (7/1).—RHEUMATISM POWDER.—This powder is of a pale buff colour and of slight taste, containing 50 per cent. salicylic acid and 16 per cent. of sulphur. There is also present 34 per cent. of a vegetable powder which simulates caueila.

*R. I. E.* (24/1).—OINTMENT FOR FACIAL TIC.—This preparation contains red mercuric iodide mixed with soft paraffin. The strength appears to be about double that of the official ointment.

*X. Y. Z.* (29/1).—SHAVING PASTE.—Preparations for shaving which do not require water or brush are largely based on stearate of potash with sufficient glycerin and a trace of liquid paraffin to reduce the vanishing tendency. The formula we have is as follows, but it has not yet been tested sufficiently:—

Stearic acid	...	...	15.0
Potassium hydroxide	...	...	1.5
Liquid paraffin	...	...	5.0
Glycerin	...	...	10.0
Distilled water	...	...	to 100.0

This is a good base for your experiments and we suggest that 15 per cent. of shaving soap paste should be added to it.

*H. W. D.* (29/1).—PAPIER MACHÉ INGREDIENT.—This material is described as "a plastic substance which is used in connection with papier maché work." The plastic form is said to harden when subjected to mild heat. The sample was already hard when received. Presumably it was originally a powder that had been moistened with water. Analysis showed it to contain about two-thirds of its weight of calcium carbonate and 11.2 per cent. of gelatin and wood pulp. The gelatin is pale in colour and therefore appears to be of a quality superior to that of ordinary glue. This may account for the properties observed. No evidence of any further ingredient was obtained. The addition of a little gum acacia may help matters.

## Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," February 15, 1877

### Preserved Ginger

A Canton correspondent thus describes the method of making preserved ginger: "The ginger root, which is a large white variety, is first dug and the outer skin scraped off. This is chiefly done in the country surrounding Canton, where it is raised. It is then shipped down to the city in boats, carefully washed, and thrown into large kettles, where it is boiled for about twenty-four hours. It is then thrown into salt water, and allowed to remain there about twenty-four hours. Next, the rough ends are trimmed off with a knife and thrown upon tables, which are surrounded with operators, holding in each hand a kind of three-pronged fork, with which they prick the root until it is thoroughly punctured through and through. It is then washed in fresh water and dried in the sun for a time, after which it is again placed in large kettles, containing about an equal weight of sugar and boiled for about twelve hours; it is then taken from the kettles and put into large earthen jars. The syrup is poured over it, and it is allowed to remain here in syrup for several days—sometimes weeks. It is then boiled up again for a short time, when it is ready for packing. It is put up in jars and half-jars, such as all dealers are familiar with, and packed in cases containing six jars, or twelve half-jars.





[Commenced C. & D., July 5, 1924]

**Institute of Metals.**—Investigates scientific and technical problems, chiefly those connected with non-ferrous metals. Secretary, Mr. G. S. Scott, 36 Victoria Street, London, S.W.1.

**Institute of Ophthalmic Opticians.**—Incorporated in 1905, the Institute of Ophthalmic Opticians offers, in addition to the benefits of organisation, the following privileges to its members:—(1) Legal defence, and insurance, against claims for injury alleged to result from negligence in fitting glasses; (2) advice on any matters connected with their business interests; (3) the loan of books from the library; (4) the receipt twice monthly of "The Refractionist," the official organ; (5) free advertisements (under easy conditions) in "The Refractionist"; (6) the right of holding office as a member of Council; (7) assistance from the Institute's Benevolent Fund in time of necessity, either on a member's own behalf, or in the event of death, of his dependents. Opticians who fulfil the following conditions are qualified to be members of this Institute: (1) The holding of one or more of the following diplomas: (a) The Sight-testing Diploma of the Worshipful Company of Spectacle Makers; (b) the Original Fellowship Diploma of the Worshipful Company of Spectacle Makers; (c) the Honours Diploma of the British Optical Association; (d) the Fellowship Diploma of the British Optical Association; (e) the Dioptric Diploma of the British Optical Association; or (2) the holding of a recognised statutory qualification in refraction or optometry in any part of the British Empire; or (3) the having held hospital or other appointments affording opportunities for acquiring special skill or experience of the kind required for the performance of the service of sight-testing and the detection of disease, and having had actual recent practice in performing such service; or (4) the having had special academic or post-graduate study of a subject which comprises sight-testing and the detection of disease, and having had actual recent practice as aforesaid; or (5) being generally recognised by other practitioners in the area as having special proficiency and experience in a subject which comprises the service of sight-testing and the detection of disease. Full particulars may be obtained from the secretary, Bank Chambers, Holborn, London, W.C.1.

**Institute of Physics.**—Formed in 1920 with the objects of securing recognition of the professional status of the physicist and of co-ordinating the work of societies interested in physical science or in its applications. The societies participating in launching the institute were the Physical Society of London, the Optical Society, the Faraday Society, the Royal Microscopical Society, and the Röntgen Society. Secretary, Mr. F. S. Spiers, 90 Great Russell Street, London, W.C.1.

**Insulin** is a hormone extracted from ox pancreas, which is used in the treatment of diabetes. Insulin for this purpose can only be made in this country under licence granted by the Medical Research Council, in which is vested British Patent No. 203,778, by F. G. Banting, J. B. Collip, and C. H. Best, the discoverers of insulin. The picric acid process used for the purification of insulin of commerce is also the subject of a patent taken out by the Medical Research Council and H. W. Dudley (British Patent No. 216,978). The initial difficulty in preparing insulin is to avoid destruction of the hormone by digestive ferments (notably trypsin), and this is effected by freezing the pancreas as soon as possible after the ox is killed. Industrial alcohol (95 per cent.) of special purity as regards denaturant is permitted to be

used for insulin extraction. The frozen pancreas (acidified to PH 2.5 to set free the insulin) is run through a mincing machine along with alcohol of sufficient strength to make the solution contain 65 to 70 per cent. of alcohol. This strength dissolves insulin but prevents solution of enzymes. The solids are separated from the turbid mixture by means of a high-speed centrifuge, and this residue is re-extracted, after which the solvent is recovered from the exhausted tissues in a vacuum drier with condenser. The alcoholic extract is clarified by cooling and either filtration or centrifugation, and the solution is next concentrated to less than one-tenth its volume at a low temperature (*in vacuo* below 35° C.) in a battery of stills or by means of a continuous flow evaporator. The concentrated liquor is gently warmed, and the fat that rises removed by skimming, the last traces of fatty matter being extracted by shaking with light petroleum or ether. Proteins are next thrown down by treatment with ammonium sulphate, followed by adding strong alcohol to the separated liquid at PH 5 until this is 80 per cent. strength of alcohol. The bulked protein precipitates are dissolved in acid alcohol at 35-40° C., and the solution is adjusted to PH 2 before precipitation of "crude insulin" by adding strong alcohol. This crude insulin is purified by taking advantage of the fact that insulin precipitates at a definite isoelectric point. In the Dudley picrate method of purification followed in Great Britain, a saturated solution of picric acid ( $\frac{1}{2}$  volume) is added to a 1.0 to 1.5 per cent. solution of crude insulin in water. This dilution is necessary to prevent deposition of substances other than insulin, but the whole of the insulin is thrown down. The insulin picrate is washed and then converted into hydrochloride by dissolving in *N*/1 HCl in 75 per cent. alcohol. The purified insulin, finally precipitated with acetone, is about six times the strength of the crude insulin. For medicinal use insulin is dissolved in sterile (isotonic) saline solution with the aid of hydrochloric acid, the acidity being adjusted to about PH 3.5, as slight acidity makes the injection stable on storage. Tricresol (0.1 per cent.) is also added as a preservative. The standard for insulin is fixed at 8 units for one milligram of insulin, comparison being made in testing with a standard preparation designated as being this strength, which is preserved at the National Institute for Medical Research. Each insulin unit in an injection thus corresponds to 0.125 milligram of this standard preparation. All insulin preparations are standardised at the Institute by the method of biological assay devised by H. P. Marks. The tests are strictly comparative, being the reduction in blood sugar in six rabbits, half of which are dosed with test sample and half with standard specimen; after three days' rest a cross-over test is made by reversing animals for a given sample and standard. According to Professor J. J. Abel, pure crystalline insulin has a rabbit unitage of 40 or more units per milligram. It melts at 233° C., and gives a beautiful biuret reaction, as well as positive Millon and Pauly reactions. Insulin is very sensitive to alkali, being destroyed by boiling for fifteen minutes with decinormal sodium carbonate solution. Pure insulin gives negative reactions for phosphorus, tryptophane, and tyrosine. A characteristic property of insulin is its sparing solubility in water at its isoelectric point (PH 5.2). It is probably a polypeptide containing organic sulphur. Commercial insulin preparations vary in their rapidity of action, possibly owing to the presence of an adjuvant, which slows down its hypoglycaemic action, a property which is desirable in treatment of diabetes.

**Insurable Interest.**—When a person effects an insurance on his house against fire, he is commonly said to have insured the property. Actually this is not the case; what he has insured is his interest in the property. If he sells the house, and the building is subsequently burnt down, the insurance company would not be liable, unless, of course, they had agreed to the transfer of the interest in the policy to the purchaser. To insure against a specific event one must have a pecuniary interest which would be prejudiced by the event. The interest need not be direct or even immediate—a contingent or reversionary interest would suffice; but the



## The C.&D. Commercial Compendium

interest must be recognisable by law. The amount recoverable under a policy is also limited to the extent of the interest; thus a mortgagee, who had advanced £100 on the security of a certain house, could not recover in his own name more than that sum if the building were destroyed by fire, despite the fact that the building had been insured for £1,000 and was worth that amount. The principle of insurable interest is not limited to insurances on property; it applies also to life assurance contracts and liability insurances—workmen's compensation, third party, etc. [Life Assurance Act, 1774 (14 Geo. 3, c. 48).]

**Insurance: Accident.**—The expression "accident insurance" is sometimes used as a broad description covering all the classes of business usually transacted by the accident departments of the insurance companies—i.e., workmen's compensation, motor, third party, glass, personal accident and sickness, etc. It is, however, more often limited in its meaning to the personal accident and sickness branch, from which aspect it will be considered now. Accident insurance can be obtained by the public in various ways. A modified form of cover is given free to registered readers of certain journals. A similar protection can be obtained for a few pence by signing and sending to the office concerned a coupon issued with diaries and other publications. Insurance against railway accidents can be obtained at station booking offices. The risk of accident to the owner of a motor-car while driving is provided as an adjunct to the ordinary comprehensive policy on private cars. All these schemes provide benefits which are obtainable if the accident is due to certain well-defined causes only, but they are fruitful sources of disappointment when a would-be claimant realises their limitations. It is not sufficiently appreciated that a full accident insurance carries with it a fairly heavy risk, which cannot be covered for a "song." The most satisfactory form of policy is that which applies to accidents due to any causes (with a few reasonable exceptions), and such a one can be obtained from practically all the leading insurers. The benefits offered vary slightly, but the following is typical:—

If the accident causes:—

Death ... ..	£1,000
Loss of two limbs or two eyes, or one limb and one eye ... ..	£1,000
Loss of one limb or one eye ... ..	£500
Total blindness by disease, or total paralysis... annuity	£50
Temporary total disablement ...	£6 weekly for 52 weeks
Temporary partial disablement ... ..	£1 10s. " "

For this a premium would be charged varying between £4 and £8, according to the occupation of the proposer. For smaller or greater sums the premiums would be proportionate. The policy may also provide for the payment of weekly sums in the event of total incapacity for work by reason of illness. The majority of insurers limit their policies to certain diseases only. The lists are generally extensive, but they omit, as a rule, diseases which are constitutional, such as cancer, phthisis, Bright's disease, and others, the ones they include being mainly epidemic diseases—fevers and the like. An allowance of £6 weekly in the event of any one of some thirty illnesses could be added to a policy in the sums mentioned above, at an extra charge of £2 per annum. Some companies issue policies which provide for weekly payments in the event of total disablement by any disease lasting seven days or more; for such a policy in the sums given above the normal premium would be about £10 10s. These "all-sickness" policies have the disadvantage that the company often finds it necessary to impose restrictions when it is found, either from the replies to questions to the proposal or from the occurrence of a claim, that the insured person has suffered

from some disease which is liable to recur. The ordinary policy being a yearly contract, it is, of course, open to either side to cancel or vary it on renewal; and naturally the insurance company could not be expected voluntarily to renew a contract which would involve the certainty or probability of heavy payments to an insured person known to be suffering, say, from phthisis or cardiac trouble. This objection to the "all-sickness" policy is met, by a few companies, by the issue of a permanent sickness policy. Acceptances are, however, conditional on a medical examination, and benefits cease at a stated age (usually sixty-five). The rates of compensation offered by different offices vary considerably. In some cases the full amount is paid throughout the duration of the illness; in others the payments cease, or are halved, after twenty-six weeks. Premiums vary according to the age of the proposer. Some employers arrange accident insurances in respect of the whole or some part of their staffs, often selecting certain "key" men, or perhaps their travellers, for this form of policy. Others take out policies on behalf of those of their employees who are outside the scope of the Workmen's Compensation Act. Special policies are frequently effected to apply during a business or pleasure trip abroad, the companies issuing short-term insurances for such purposes at low premiums. For the purpose of calculating the proportion of an accident premium, on which abatement of income-tax may be claimed, the usual basis is to reckon at two shillings per cent. on the death sum insured.

**Insurance Agents.**—There are various classes of insurance agents in this country. Industrial life offices have large numbers of agents who are canvassers or collectors, each working for one company only and under the control of a district superintendent. Then there are insurance brokers and others whose whole, or main, business is insurance, and who deal with many different companies. Beyond these there are enormous numbers of agents with whom insurance work is either a sideline or merely a means of obtaining discount from the premiums. Solicitors, accountants, bank managers, garage proprietors—in fact, nearly everyone who is in a position to introduce business—can obtain, for the asking, an appointment as agent, while many public bodies and large firms obtain the agency commission for themselves by the formality of nominating one of their officials to pose as the agent. The rates of commission paid by the companies for different classes of insurance vary somewhat, but an allowance of 15 per cent. on the premiums is the commonest figure. In life business, however, a procuration fee is paid on completion of the proposal, the amount varying from 20s. per cent. on the sum assured; but a trifling percentage of the renewal premiums is also allowed to the agent. Insurance agents have, as a rule, very limited authority to commit the company to the acceptance of risks; but some, particularly those specially appointed to act in this country for foreign companies, have full powers on behalf of their principals. British companies' representatives abroad are usually similarly invested.

**Insurance: All Risks.**—Policies of this nature are commonly issued in respect of articles of jewellery or furs, and, as their name implies, they apply to losses due to fire, theft or any accident or misfortune. The only risks normally excepted are those of war, riot, wear and tear, the processes of cleaning or repairing, moth or other gradual causes. The policies generally apply to Great Britain and Ireland only, but they can be arranged to be extended to operate abroad as well. It is a usual stipulation that each article be separately described and valued, and it is advisable to have the values agreed at the outset by the production of some evidence of their accuracy. The rates charged for insurances of this description vary from 10s. per cent. upwards. Trade insurances against "all risks" are occasionally effected, particularly in respect of valuable goods on show at exhibitions.



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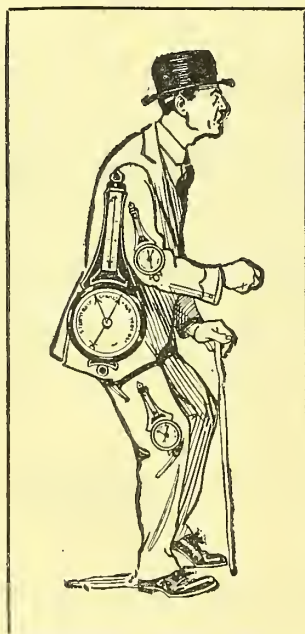
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ANTHROIDS BALM, CURILAX, VICAPS, STEMAT ANTI-CATARRHAL TABLETS, STEMAT ANTI-CATARRHAL BALM, My Lady's ROLETTE WRINKLE ERADICATOR, SANALVE, THE QUROPAD MASSAGE APPLIANCE, VANITY BOXES, &c.

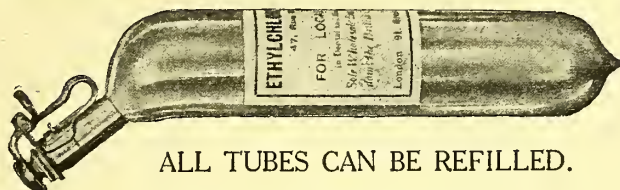
**STEPHEN MATTHEWS & CO. Ltd.**

Manufacturing Chemists.

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**Dr. BENGUE'S BALSAM****FOR  
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and metal  
tubes.





# Three Points about Dr. Cassell's Tablets

Selling made  
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- 1** The cumulative profit from rapidly increasing sales.
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Have you tried a Dr. Cassell's Window  
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Telephone : MUSEUM 4029.

Telegrams : "AMPSALVAS, LONDON."

## *British Agents for the following French Preparations.*

Pharmacists are warned against the purchase of these French preparations unless bearing our name and address. Packages bearing similar names and intended solely for the French market are being offered for sale in this country. In many cases they contain drugs included under the D.D. Acts and are not identical in formula with those introduced by us to the medical profession in this country.

***To protect themselves and their customers retailers should  
insist on packages bearing the A.F.D. Co.'s label.***

### ADREPATINE.

A pluriglandular compound for Hemorrhoids.  
Ointment and Suppositories.

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Pure crystallised strophanthine.  
Drops and Ampoules.

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An association of digitaline and strophanthine.  
Drops and Ampoules.

### GALYL.

An arsenical extensively used in the treatment of Syphilis.

### IODASEPTINE.

Iodobenzomethyl monoformine. An intravenous antiseptic in chronic conditions.  
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A local anæsthetic.  
Sterile Capsules and Ampoules.

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A combination of quinine, iron, cacodylates, etc., for Malaria.  
Ampoules of 5 c.c.

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Anti-gonococcal entero-vaccine for oral administration.  
In Pills.

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Tartro-bismuthate of potassium. Intramuscular treatment of Syphilis.  
Ampoules.

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Dr. Barthe de Sandfort's preparation for Burns.  
Slabs and Candles.

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Calcium mono-guaiaco-phosphate  
Syrup, Tablets, and Ampoules.

### ELIXIR BROMO VALERIANATE (Gabail).

An inodorous and tasteless elixir of valerian and strontium bromide.

### HEMO-CYTO-SERUM.

An association of cacodylate, iron and strychnine.  
Ampoules of 5 c.c.

### KINECTINE.

A combination of quinine and hectine for Influenza, Hay Fever, etc.  
Tablets in Tubes of 10.

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Neocaine, with adrenalin.  
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A special extract of the pancreas with liver extract for Diabetes.

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Iodobenzomethyl-di-urotropine. An intravenous antiseptic in acute infectious diseases.  
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Solution of sodium borotartrate for Epilepsy.

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Metabenzamido-semi-carbazide. A powerful antipyretic and analgesic.  
Powder, Tablets of 25 and 50 cts.

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A chemical compound of phosphorus and turpentine. A nervine tonic.  
Liquid, Syrup and Pills.

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A nuclein and arsenical preparation.  
Elixir, Granular, Tablets and Drops.

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A non-fatty extract of cod-liver oil with various additions.

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Bismuth metal. The original antisyphilitic introduced by Prof. Levaditi.  
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Pure alkaline persulphates for hyperacidity, etc.  
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Pure Tin and Tin Oxide.  
Specific in Boils, Acne, etc.  
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Odourless and tasteless valerian.  
In Liquid form.

## **SPECIAL NOTICE.**

**STANNOXYL Tablets English Packing do not require a medicine stamp.**

Retail Price - - 3/- per tube of 80 tablets.  
Wholesale Price - - 28/- per dozen tubes.



**POISONS and PHARMACY ACT.**

Privy Council Order, Jan. 1, 1921.

**DANGEROUS DRUGS ACT, 1920.**

Regulations of May 20, 1921. (Operative Sept. 1, 1921.)

**Dr. J. Collis Browne's  
CHLORODYNE**

is not affected by above Order or Regulations.

**It does not require purchaser's signature.****Proprietors: J. T. DAVENPORT, Ltd., 83/87 Union Street, S.E.1.****Beecham's Pills**

1s. 3d. size - 11s. 9d. per dozen  
 3s. 0d. " - 28s. 0d. "  
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1s. 3d. size (8 Powders) 11s. 9d. per dozen  
 5s. 0d. " (40 " ) 54s. 0d. "

*Less 2½% Cash Discount.*

A further 5% allowed for Window  
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Orders—Minimum Quantity FIVE POUND  
 (Assorted sizes, Pills and Powders).

PACKAGES FREE. CARRIAGE PAID.

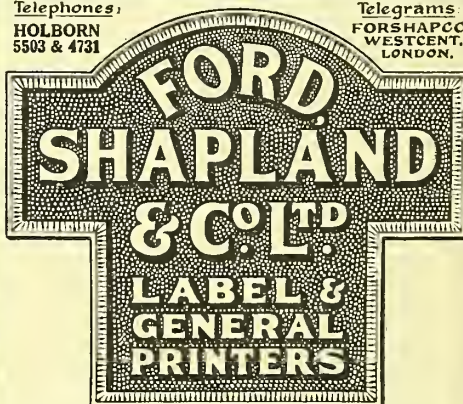
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All communications to be addressed  
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BEECHAM ESTATES & PILLS LIMITED,  
 ST. HELENS, Lancashire.

Telephones:  
 HOLBORN  
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Telegrams:  
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FINE ART SHOWCARDS, CARTONS,  
 ENVELOPES FOR SHAMPOO POWDERS,  
 CORN SILK, ETC.

*"Sol-Vo" Sanitary Paper  
 in Rolls & Packets.*

AGENTS FOR THE REGISTRATION  
 OF TRADE MARKS.



# Backed by the strongest selling-force there is— the recommendations of experts!



*In the great cities all over the country doctors and dentists are making customers for this tooth paste*

**L**ONDON — Bristol — Glasgow — Liverpool — all over the country the medical profession are using, testing, *recommending* Ipana!

Not only in these great centres — but in the small towns too — trained salesmen call daily upon doctors and dentists, demonstrating Ipana — securing their co-operation.

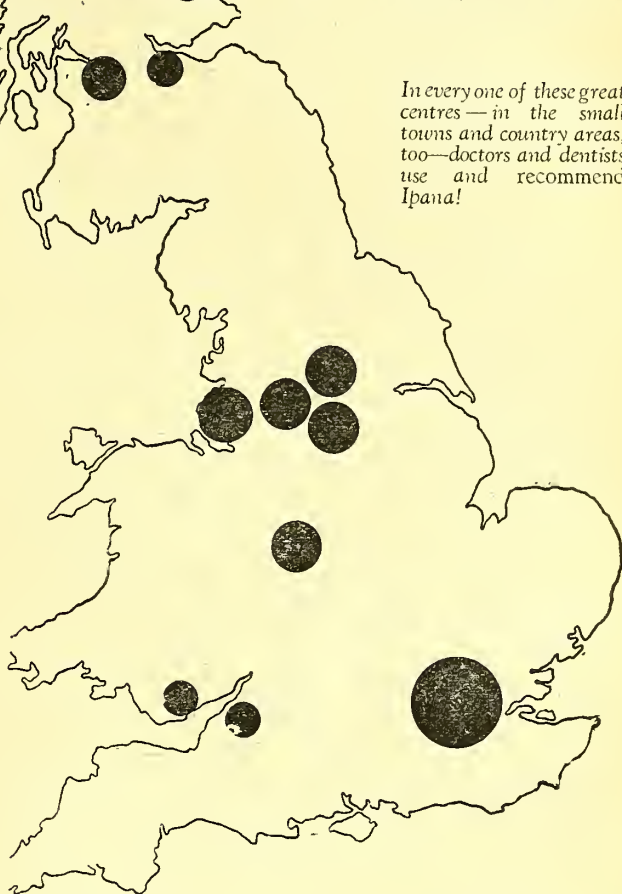
A gigantic undertaking — yes, — but not a difficult one! For Ipana commends itself instantly to the expert because the claims made for it are *sound*! It fills a need of which every medical and dental authority has long been conscious: the need for a dentifrice containing a haemostatic (such as ziraton) to brace and tone the gums and keep them healthy, the teeth sound.

The clean, wholesome flavour — the absence of harmful grittiness, are additional reasons why Ipana is good to recommend.

## ***Wonderful new selling support!***

Think what this recognition by the medical profession of the outstanding merits of Ipana may mean to *you* — what wonderful selling support it gives!

Backed by a campaign of forceful advertising appearing in the magazines read in thousands of homes all over the country



*In every one of these great centres — in the small towns and country areas, too — doctors and dentists use and recommend Ipana!*

— supported and commended by medical opinion everywhere — Ipana will make bigger sales this year than ever before.

## ***Make the most of this chance***

Don't miss this wonderful opportunity! See that the people in your neighbourhood come to you for Ipana. Display it freely! We offer special generous display terms and a *free* supply of store material. Remember, every customer who comes to you for Ipana may be a customer for other things as well!

Order Ipana today from us or from your regular P.A.T.A. wholesaler. And write for particulars of our display terms. Bristol-Myers Company, 112 Cheapside, London, E.C.3.





# Petrolagar

(trade mark)

**FREE TO THE RETAIL CHEMIST.**

Until further notice we will allow you **ONE BOTTLE** of **PETROLAGAR** **FREE** with each single order for **ONE DOZEN** ordered from your wholesaler.

**8½% MORE PROFIT FOR YOU.**

Petrolagar is an ethical product which never has been advertised to the public.

We make this free offer as a special inducement to the retail chemists to carry ample stocks to meet the demand of the doctors with whom we are carrying on an intensive ethical advertising and detailing campaign for Petrolagar.

You may have **ONE 8-oz. BOTTLE FREE** with 1 doz. 8-oz. size, any assortment,

**or**  
**ONE 16-oz. BOTTLE FREE** with 1 doz. 16-oz. size, any assortment  
(not a mixed dozen of large and small).

**ORDER PETROLAGAR IN DOZEN LOTS FROM YOUR WHOLESALER.**

**DESHELL LABORATORIES LTD., 1-3 BRIXTON ROAD, LONDON, S.W.9.**  
PHONE: BRIXTON 1188.



*acidophilus*  
*Therapy*

## B. ACIDOPHILUS - EMULSION

(MORGENSTERN)

A concentrated, stable, homogeneous and palatable emulsion  
of

### B. ACIDOPHILUS

(about 250 millions per c.c.)

AGAR-AGAR, PETROLAT. liq. (heavy), SACCH.,  
flavouring

*Indicated in Constipation, Intestinal Stasis with  
Chronic intestinal putrefaction, etc.*

**E. H. SPICER & Co., Ltd.**

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### GLANDULAR PREPARATIONS

are the product of a Laboratory which deals with nothing else. They are "specialties" in the best sense of the word. Hence their value.

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*Sole Distributors for The Harrower Laboratory,*  
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# HEPPELLS LTD.

164 Piccadilly, London, W.1

ARE RETAIL CHEMISTS OF LONG EXPERIENCE  
AND CAN THUS DEVOTE THEIR Wholesale Department TO THE  
DISTRIBUTION OF THOSE LINES WHICH THEY HAVE  
TESTED AND PROVED TO BE THE BEST OF THEIR KIND.

## B & B LYSOL

IS AN EXAMPLE.

### B & B STANDS FOR BRITISH AND BEST

LYSOL OF FOREIGN ORIGIN IS OFFERED TO THE CHEMIST FROM MANY SOURCES

- BUT -

**B & B LYSOL** IS THE DIRECT PRODUCT  
OF A BRITISH COLLIERY, AND IS  
PREPARED THROUGHOUT BY BRITISH  
WORKMEN, AND ENTIRELY FROM  
BRITISH MATERIAL.—

**B & B LYSOL** IS THE ONLY LYSOL  
WITH A PLEASANT ODOUR, IS THE  
SAFEST GERMICIDE, AND IS OF  
STRENGTH GUARANTEED IN EXCESS  
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**B & B LYSOL** IS VERY CONVENIENTLY  
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MEASURE IN AN ATTRACTIVE CARTON,  
HANDY FOR STOCKING, HANDY FOR  
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**B & B LYSOL** IS ADVERTISED TO  
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THE PUBLIC THROUGHOUT THE  
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4 oz. SIZE	..	..	1/-	..	..	6 6 DOZEN.
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16 oz. SIZE	..	..	2 6	..	..	21/- DOZEN.

Carriage Paid, less 2½% monthly.

WITH STOCKING BONUS OF TWO PACKAGES FREE FOR  
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FROM LEADING WHOLESALE HOUSES  
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TABLETS

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STOCK THE BEST SELLER IN THE TRADE.

Shows over 43% Profit as follows :

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6 dozen	1/3 size @	12/6	...	...	£3 15 0	£4 10 0
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1/2 "	5/- "	@ 48/-	...	...	1 4 0	1 10 0
BONUS :	1 dozen	1/3 size	...	...	FREE	0 15 0
	4 only	3/- "	...	...	"	0 12 0
	1 "	5/- "	...	...	"	0 5 0
Total					£7 19 0	£11 4 0
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*A Proven Efficient Remedy*  
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INDICATED IN

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### CAVODENT TOOTH PASTE

Made with Milk of Magnesia.

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For the Treatment of Hemorrhoids.

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**COLD CREAM**  
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Special Quotations for Quantities.

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YOU CANNOT AFFORD TO MISS THIS OPPORTUNITY

**33 10/3 %**  
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**PINE NEEDLE BATH TABLETS**

Prescribed by Physicians for nervous and heart diseases. Nerve soothing, refreshing and invigorating.

**2/- PER**  
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Improves complexion of skin and keeps figure slim. Ideal skin tonic.

WRITE FOR HANDSOME COLOUR SHOWCARD.

**NATURAL PRODUCTS CO., 40 Farnival Street, E.C.4**

**DR. BOW'S**  
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Prepared by his Great-Great-Grandson



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**RETAIL 3/-**

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Intestinal Evacuant.

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The demand is increasing daily by leaps and bounds.

"NORMACOL" is a big line! Are **you** holding stocks?

Draw supplies from your Wholesale House.

**PACKINGS  
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4-oz. Tin  
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**9/-**

Retail Discount  
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# Petroleum Jelly

White, Yellow, Amber,  
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Pharmaceutical and  
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**MEADE-KING, ROBINSON & CO., LTD.**

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*Do you study  
Quality as well as  
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IF SO, SEND FOR OUR  
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BEESWAX	WHITE, YELLOW AND COMPOSITION
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**SLIPPERINE**  
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FROM THE WHOLESALE TRADE  
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PHARMACIES MODERNISED.

ALL GOODS OF BEST QUALITY  
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WE HAVE SPECIALISED IN THE  
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LIQUID**

**PARAFFIN B.P.**

Colourless, Tasteless, Odourless.  
All Specific Gravities.

**PETROLEUM  
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White, Lemon, Yellow, Amber,  
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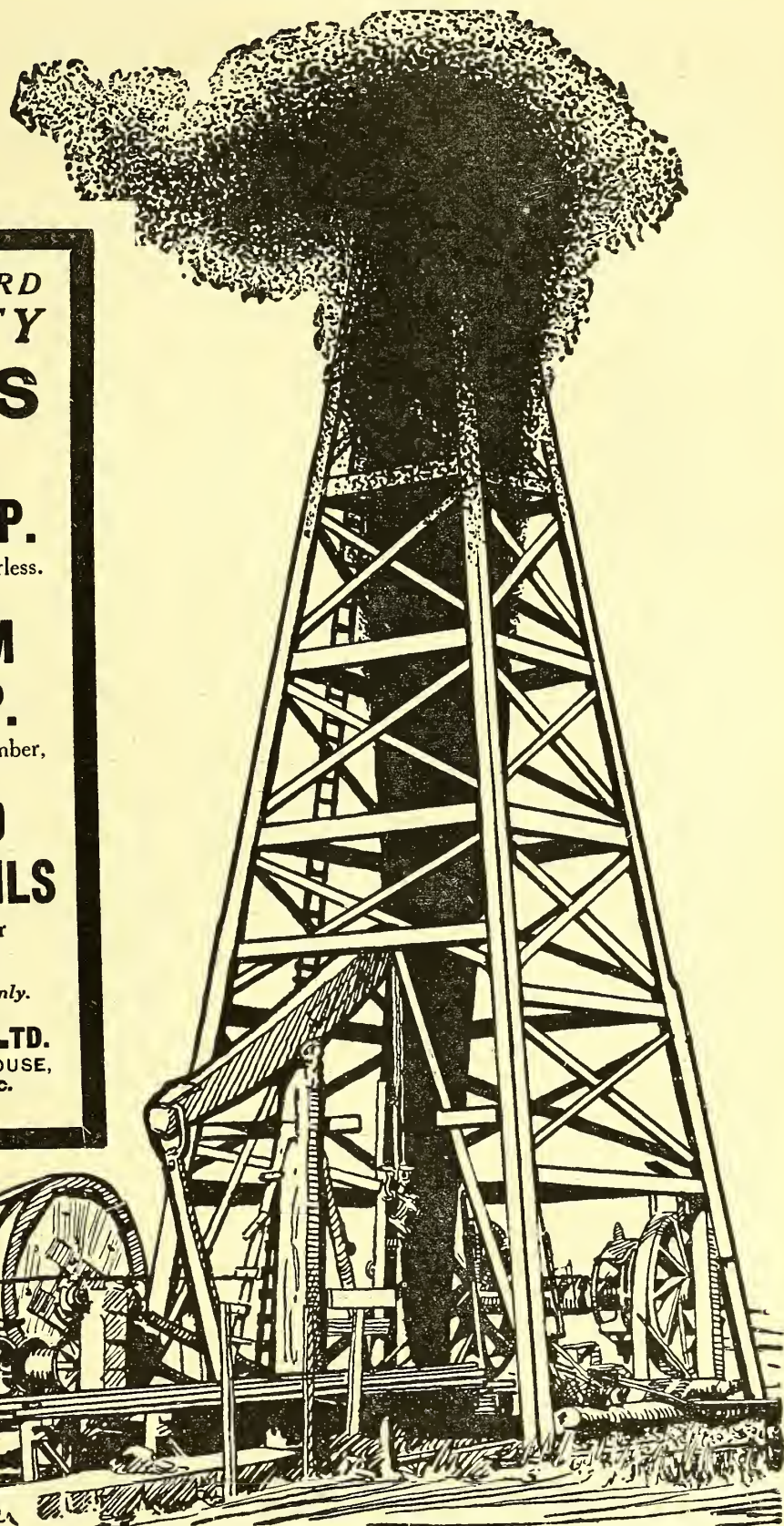
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*Wholesale and Export only.*

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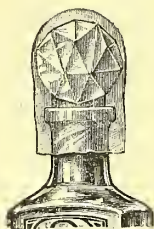


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made from  
HIGHEST QUALITY VISCOSE.

Self-Fixing, Hermetic.

Prompt Delivery.



When wet.

WHITE AND  
ALL COLOURS.  
OPAQUE AND  
TRANSPARENT.

All sizes up to 5" dia.

USUAL TYPE,  
EXTRA  
BRILLIANT,  
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When dry.

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ALL SIZES AND SHAPES.

We offer two very good Machine-made lines, viz.:-

**TABLETS, with ALUMINIUM CAPS** and Wads  
**CANNON ESSENCES, Round, Heavy.**

Please send us your enquiries.

Please ask for **Prices of Stock Bottles and Lines** not on our list.

Write or phone (Central 2430, 5 lines and 2 private lines).

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(Estab. 1888.)

99 CANNON STREET - LONDON, E.C.4

(Strictly Wholesale. Original crates only.)

The Sincerest Form of Flattery  
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∞ ∞ **VISKAP** ∞ ∞  
**BOTTLE CAPS**

as supplied by us for over 20 years, but—  
the **GENUINE** cannot be beaten.

**SELF-FIXING, HERMETIC,  
TRANSPARENT, OPAQUE, COLOURED, WHITE.**  
**IMMEDIATE DELIVERY**

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**VISCOSE DEVT. CO., LTD., BROMLEY, KENT.**

Sent on 14 days' trial  
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**DUDLEY'S "ARGYLE"  
CASH TILL.**

Size 18 x 9 x 7½ in.

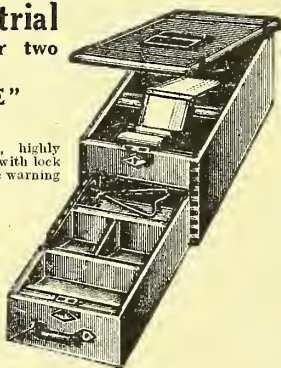
Solid Mahogany, dovetailed corners, highly  
polished finished lid, and drawer fitted with lock  
and key. Check action and automatic warning  
bell to drawer. Three cash compart-  
ments and one for notes.

**Price 84/- each**

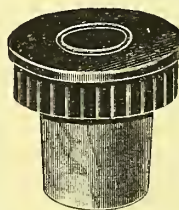
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ENGLAND



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The above conditions apply only to the United Kingdom.

**EXAMPLE.**

		COST	SELLS FOR
3½ dozen 1/3 size at 12/- net	....	£2 2 0	£2 12 6
2     "   3/-   " at 30/-   "	....	3 0 0	3 12 0
		5 2 0	
Less 10/6 for Window Show	....	10 6	
		£4 11 6	£6 4 6

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1/3 size	....	12/- per doz. net.
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12/-   "	....	114/-   "   "

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---

## TOOTH BRUSHES

---



Fig. A.

### BONE HANDLES, ADULTS' SIZE.

No. 689.	4 Rows.	Waxed, assorted patterns, bold handles	.. ..	per doz.	5/3
No. 690.	4 Rows.	Waxed, assorted patterns, bold handles, super quality	.. ..	„	6/-



Fig. J.



Fig. L.

### CELLULOID HANDLES, ADULTS' SIZE.

No. 579.	4 Rows.	Assorted Colours, and assorted Cuts, sim. to Fig. J.	per doz.	2/6
No. 591.	4 Rows.	Assorted Colours, serrated bristles, with tuft at end, sim. to Fig. L, but with straight handle	.. ..	3/9

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# THE CHEMIST AND DRUGGIST

## SUPPLEMENT

42 CANNON ST.  
LONDON E.C.4

FEBRUARY 26, 1927

*This Supplement is inserted in every copy of The Chemist & Druggist.*

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The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case the name and full postal address should be written on

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11. **SOUTH COAST.**—Retail and Dispensing Business; returns £2,200; lock-up modern pharmacy, fitted in oak and fully stocked; long lease; price £1,750; also small Branch with good residence; price £550; illness cause of sale.

12. **BOURNEMOUTH (Near).**—Cash Drug and Photographic Stores; returns £26 to £30 weekly at good prices; double-fronted corner shop; stock and fixtures estimated by vendor at about £700; new lease will be granted, or freehold may be purchased; price of business £1,000.

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14. **KENT.**—Good middle class Retail and Dispensing Business, capital situate in the centre of shopping thoroughfare; returns about £1,850; scope for development under personal supervision; value of stock and fixtures about £1,200; long lease; vendor retiring; terms to be arranged equitably.

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5.—**YORKS.**—Good-class Dispensing and Retail Business in busy town; double-fronted shop with house attached in main road; returns £35 per week, all cash; stock about £700; Kodak Agency; price £850. Further particulars on application. (71)

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**BOURNEMOUTH**.—Qualified Dispenser wanted; must be quick, accurate and experienced; not under 26. Apply, giving full particulars as to salary, age, experience and references, to Blacklock & Co., The Square, Bournemouth.

**CHANNEL ISLANDS, JERSEY**.—Wanted, Junior Assistant (male); must be accustomed to high-class Dispensing and Retail; progressive salary; outdoor. Apply, stating age, salary, references, and send photo, to Mr. F. G. de Faye, Pharmacist, St. Helier, Jersey, Channel Isles. (1½d. postage.)

**CHELMSFORD DISTRICT**.—Junior Assistant required; good Dispenser; must have had some experience in Window-dressing and Counter work. Apply, with full particulars, to 98/361, Office of this Paper.

**FOLKESTONE**.—Wanted, Qualified Senior Assistant, accustomed to good-class Dispensing and Retail. Please give full particulars as to experience, references, age and salary required (outdoors). Hall & King, West Cliff Pharmacy, Folkestone.

**HERTS (Residential District)**.—Required at once, Qualified Lady for Dispensing and assistance at Counter; good-class business; knowledge of Photographics and Window-dressing essential. Age, height, references, photograph (will be returned) and full particulars first letter. Apply 148/25, Office of this Paper.

**KINGSTON-ON-THAMES**.—Qualified Assistant for good-class business; Dispensing and Counter; two assistants kept. Apply, with full particulars of experience, also state age, salary required, and when at liberty, Plomley & Alldis, 51 Fife Road.

**LIVERPOOL**.—Qualified Manager; courteous, energetic; good Salesman; Photographic knowledge. Apply, stating age, salary required, references, photo, and when at liberty, to D. Norman, 269 Crosby Road, Seaford, Liverpool.

**LONDON**.—Manager, qualified, accustomed to middle-class Family business; must be good Counterman and Window-dresser; only really competent men need apply. 147/35, Office of this Paper.

**LONDON, E. SUBURB**.—Qualified Manager, 25-35, required for middle-class Retail business; must be good Window-dresser and have business capabilities. Apply, stating experience, age, salary, etc., to Ascotts Pharmacies, Ltd., 169 Hemingford Road.

**LONDON, E.**—Qualified Assistant, used to quick Cash, Retail and N.H.I. Dispensing. Apply (letter only), giving particulars of experience, references, age, when disengaged and salary required, "Pharmacist," 37 Sydney Road, Stoke Newington, London, N.16.

**LONDON, S.E.1.**—A capable all-round Assistant, used to N.H.I. and middle-class business; permanency to keen worker. Apply Bennett's, Chemists, 79 Union Road, Newington Causeway.

**LONDON, S.W.**—Qualified Assistant, under 30, as Relief Man for Branch Shops and Window-dresser; must be used to quick Cash, Retail and N.H.I.; commence £5 10s. weekly. State age, height, details of experience and when at liberty. 148/12, Office of this Paper.

**LONDON, S.W.**—Assistant, unqualified, age about 23, required shortly for good Dispensing and Retail business; quick and accurate Dispenser essential. Please state full particulars of experience, references and salary required to 148/18, Office of this Paper.

**LONDON, W.3.**—Junior; good experience and references; Counter, Dispensing and Photographic; must be thorough and reliable. Venables, Chemists, 223 High Street, Acton, W.3.

**LONDON, W. SUBURB**.—Qualified Branch Manager required, 25-40, for middle-class Retail, N.H.I. and Photographic business; must have initiative and capable of handling neglected business. Apply, stating age, experience, salary required, to 148/11, Office of this Paper.

**LONDON, S.W.**—Required, shortly, for good middle-class business, smart Junior (lady or gent.) capable of Dispensing and with knowledge of Photography; one passed Part I preferred, but not essential. Apply, with full particulars, age and salary expected, 148/10, Office of this Paper.

**LONDON**.—Qualified Manager required for branch; accustomed to good-class trade; Dispensing, Window-dressing and Photography. Apply, with full particulars, to 98/360, Office of this Paper.

**LONDON**.—Experienced Qualified Assistant, not under 25, capable of taking charge and view to Managership; good progressive post to the suitable man; must be a good Counterman and Window-dresser. Apply, with full particulars of experience, etc., stating if married, and when at liberty, 149/1, Office of this Paper.

**MANCHESTER DISTRICT**.—Qualified Branch Manager (or doors), aged about 28, required for good-class Retail Dispensing Business; smart Salesman and experienced Dispenser essential. Address, stating age, height, salary, references, when disengaged and enclosing photo (if convenient) to 149/1, Office of this Paper.

**MIDLANDS**.—Required shortly a capable qualified male Assistant; permanency, with prospects of branch managership. Apply, giving full particulars, to 148/1, Office of this Paper.

**NEW FOREST**.—Wanted, Lady Assistant; Counter, Dispensing and Photographic; no D. & P.; nice-class trade. Apply Mart Pharmacist, Brockenhurst, Hampshire.

**SOUTH WALES**.—Wanted, a Manager with view to success (or will sell outright) for branch business at Bedwas. Full particulars will be given to all genuine applicants. W. Francis, Chemist, New Tredegar.

**SURREY**.—Qualified male Assistant, young, required shortly for good-class Dispensing business. Full particulars to Manager Edwards & Son, Chemists, Godalming.

**WEST-END**.—An experienced, qualified Assistant; a good knowledge of French, and French and American Preparations essential. Apply, giving the usual particulars of age, height, salary required, when free, and references. 148/1, Office of this Paper.

**APPRENTICE or Improver** wanted in good-class Dispensing and Counter business. Apply, with full particulars, to Manager, 1 Lavender Hill, S.W.11.

**ASSISTANT**; unqualified; good Dispensing, Counter and Photographic experience essential. Moxham, Chemist, Portswood, Southampton.

**ASSISTANT**, lady, M.P.S., required for March 19; must be an accurate and quick Dispenser; moderate salary; 20 miles from London. Reply P.C.B. 4/18, Office of this Paper.

**ASSISTANT**; competent; age 25-30; unqualified; good Dispenser and Salesman, develop and print, and Window-dresser; must be of good appearance and address; Surrey, with 20 miles of Town. "Kodak," 148/35, Office of this Paper.

**AT once**, young gentlemanly Assistant, unqualified, experienced, for agricultural district; Counter, Dispensing a Stock; no Sunday duty; good Window-dresser, with knowledge of Photography. Full particulars and salary required in first letter. Low & Hare, Ltd., Chemists, Hexham, Northumberland.

**BRANCH Manager**, qualified, wanted; must be good Salesman, Window-dresser, and Stock-keeper. Applications, stating age, wages required, particulars of previous experience and names for two references, to be forwarded to the Doncaster Co-operative Society, Ltd., 1 John Street, Doncaster. Envelope to be endorsed "Chemist."

**BRANCH Manager** required, male or female, in working-class district; Light Retail and N.H.I. Dispensing; outdoor good opportunity for smart person. Apply, giving full particulars, salary required, age, experience, references, "Chemist," 4 Dudley Road, Wallcath, Kingswinford, Staffs.



**CAPABLE**, qualified Assistant, gentleman, with thorough knowledge of business. State age, height, and salary required, also references. "Chemist," 186 Lavender Hill, S.W.11.

**JUNIOR** or Improver (male) required by March 14; outdoors; must be quick and energetic, with good all-round training in high-class Family Dispensing business. Apply, with usual particulars, stating salary required, to Cooper, 22 High Road, Streatham, S.W.16.

**JUNIOR** Assistant for good-class Family business; Dispensing, Window-dressing and smart Counterman; excellent experience offered. Full particulars, references, and salary required to Bruce, Chemist, Westcliff-on-Sea.

**LADY**, qualified, wanted; knowledge of Photography essential; no D. and P. Apply by letter, stating usual particulars. I. Kudish, Chemist, 115 Cannon Street Road, Commercial Road, E.1.

**LADY** Assistant, Hall qualification preferred, but not essential, for good-class Retail business near Bournemouth, to keep Retail Ledgers and help at Counter and Dispensing. Full particulars, with photo, stating salary, to Kirkman, Chemist, New Milton, Hants.

**LADY** Dispenser-Book-keeper (qualified) required, April 1, for country town practice. Apply, stating age, with copies only of recent testimonials, Drs. Gardiner-Hill and Briggs, Horse Fair, Banbury.

**MANAGER**, qualified, required, with good knowledge of Optics, for Retail, Photographic and Optical business; Midlands; good house attached. Apply, with references, age, experience, and photograph, to 145/39, Office of this Paper.

**MESSRS. COOPER, SON & CO., LTD.**, require a qualified Assistant (gentleman), with good Dispensing and Counter experience. Apply, giving full particulars and salary required, to "A. J. B. C.," 80 Gloucester Road, South Kensington, S.W.7.

**PHARMACIST** wanted, age 35, for Laboratory, to assist in or take charge of Manufacture and Production of Proprietary; good opportunity and permanency for man from Retail with knowledge of get-up. State experience, salary, references (also enclose photograph), in confidence, to Raybould, Whitehouse & Co., Ltd. (est. 1878), Wholesale Druggists and Sundriesmen, Dudley, Worcs.

**QUALIFIED** Assistant required for old-established first-class Pharmacy in Yorkshire; either sex could apply, but applicant must be active, ambitious, courteous person well up in Photographics and Counter Sales, Window-dressing, and able to take charge when necessary. State terms, and if possible enclose photo first instance. 143/24, Office of this Paper.

**QUALIFIED** lady Assistant for quick Retail business; must have good all-round experience. State full particulars and salary. W. W. Adams, 36 Cape Hill, Smethwick.

**QUALIFIED** Assistant wanted, outdoors, with general provincial experience preferred, possessing courteous Counter personality and accustomed to good Dispensing; knowledge of Veterinary requirements desirable, but not imperative. Age, height, experience (photo if possible), salary expected, first letter, to "Managing Director," 166 Fore Street, Exeter.

**QUALIFIED** man at once; competent and worker. State full particulars to Partons, 457a New Cross Road, S.E.14.

**QUALIFIED** Assistant required for one month, immediately, for Light Retail business. State full particulars, salary required, etc. Varley, 58 Milton Road, West Hartlepool, County Durham.

**QUALIFIED** Assistant, permanency, in old-established business; preference given to man with Optical qualification. Apply, giving full particulars, age, experience, and salary required, to P.C.B. 4/19, Office of this Paper.

**QUALIFIED** Assistant for N.W. London; Window-dressing and Photography experience essential. Write, stating age and salary required, to 149/39, Office of this Paper.

**QUALIFIED** Assistant, preferably single, for Country Branch in South Yorkshire; duties would suit lady or elderly gentleman; conscientious service required. Full particulars, with reference, to 150/12, Office of this Paper.

**QUALIFIED** Assistant wanted for North London; permanency; knowledge of Photography and Window-dressing essential; some acquaintance with Optics useful. Full particulars and salary required in first letter. 150/3, Office of this Paper.

**SMART** and energetic Manager-Salesman for Drug Store near City; must be thoroughly experienced in all branches; need not be qualified; knowledge of Fancy Goods and Buying. State references and wages. Write P.C.B. 4/2, Office of this Paper.

## PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

**WANTED**, as early as possible, qualified lady Dispenser (also to assist in Retail). Apply, stating age, experience and salary required (enclosing photograph), W. Deacon, Pharmacist, Bridgwater, Somerset.

**WANTED**, at once, qualified Manager for branch shop, middle class and N.H.I.; splendid chance for right man to earn progressive salary and build up good business; no opposition. Age, salary, experience, etc., first letter. Wharton, Chemist, Chesterfield.

**WANTED**, a smart, young qualified Assistant especially for a good middle class business and Insurance Dispensing at our Morley branch; a good post will be offered for a suitable man; required for March 19. Apply to S. A. Sheard, M.P.S., "Lythamore," Woodlands Drive, Harrogate.

**WANTED**, Chemist-Optician, with both qualifications, Eastern Counties, Surgical and Photographic knowledge a recommendation, to take active management under principal. Send full particulars as to experience, salary, etc. 133/32, Office of this Paper.

**WANTED** in a London Hospital (135 beds), a capable, accurate Unqualified Dispenser, age about 20 years; Hospital experience essential; one who has passed Part I preferred; salary about £2 per week, according to experience. Apply by letter, stating age, qualifications, etc., and enclosing copies of three recent testimonials, to Box 443, c/o Aldridge, 26 Pater-noster Row, E.C.4.

**WANTED**, by Retail Chemists with several branches, qualified gentleman as Branch Manager; consideration only given to applicants with sound experience and ability; must be good Window-dresser and display man; N.H.I. and Photographic; Manchester district; state salary required; give references and enclose photograph. 148/29, Office of this Paper.

**WANTED**, Assistant, qualified or unqualified. Apply, stating age, salary and reference, to 150/1, Office of this Paper.

**YOUNG** ladies required, with good experience in Retail Pharmacy, for Clerical Work in London; interview necessary. Give full particulars, experience and salary required. Reply 147/40, Office of this Paper.

**YOUNG** lady, age 25-30, for Toilet Department, also with knowledge of Belt Fitting, etc., and willing to learn demonstration of Scholls' Foot Appliances. Hickman & McCall, Chemists, Newbury.

## WHOLESALE.

**A LONDON** Representative required, with connection amongst chemists and stores, etc.; must be keen and energetic. Apply by letter stating salary and commission, references, and fullest particulars to Scott & Co., 49 Old Bond Street, London, W.1.

**ASSISTANT** Buyer required for Chemists' Sundries; previous experience essential; initial wages £5. Mention, in strict confidence, age, particulars of appointments, including duties, reasons for and dates of leaving, and duration of each. 98/376, Office of this Paper.

**DRUGGISTS' SUNDRIES**.—Wanted, Residential Representative for Sheffield and district; connection essential; small salary, commission and expenses. 98/378, Office of this Paper.

**MESSRS. WRIGHT, LAYMAN & UMNEY, LTD.**, invite applications for a position on their outdoor staff in the London area. Prospective applicants are requested to note the following conditions: age about 30, retail experience, good social appearance, able to drive a motor car.

**PHARMACIST**, age about 35, required in Laboratory of Proprietary Manufacturers; good and progressive permanency to a man who can produce. State reference, experience and salary, also enclose photograph, to Raybould, Whitehouse & Co., Ltd. (est. 1878), Wholesale Druggists and Sundriesmen, Dudley, Worcs.



**PILL AND TABLET DEPARTMENT.**—Foreman required to take charge of complete department for Pills and Tablets of Provincial Wholesale House; must be an experienced and capable worker. Apply, with particulars of age, experience and salary required, to "Pilula," 98/377, Office of this Paper.

**QUALIFIED Assistant** wanted for Wet Counter; must be experienced and used to D.D.A. records. Wilkinson & Simpson, Ltd., Low Friar Street, Newcastle-on-Tyne.

**QUALIFIED Chemist** required to take charge of small Printing Ink Factory; must be a capable and energetic man, but lack of experience of printing inks would not necessarily disqualify. Letters, stating age, training and experience, 99/386, Office of this Paper.

**REPRESENTATIVE** wanted by a Wholesale Druggist for London and suburbs; must have good knowledge of Drug trade, well educated, and of good address; connection an advantage; age about 30. Apply "R.," 98/374, Office of this Paper.

**REPRESENTATIVE**, with good connection either in the East or West of England, required by first-class House to call on Hospitals, Nursing Homes, etc.; Surgical Sundries and Dressings; wages £3 10s., commission and expenses. 98/382, Office of this Paper.

**REPRESENTATIVE** required by Manufacturers of high-class Perfumes and Toilet Articles for Central London; expenses and commission basis; give full particulars and experience. Apply 150/13, Office of this Paper.

**REPRESENTATIVES** wanted by well-known Proprietary Manufacturers for South and West of England and Midlands; salary, expenses and commission; car owner preferred. Applications only considered from men of highest character and credentials. Write "D.," Box 986, Erwoods, Ltd., 30 Fleet Street, London, E.C.4.

**REPRESENTATIVES** wanted for extensively advertised brand of Olive Oil in Kent, Surrey and Sussex, also Newcastle district; gentlemen with existing connections preferred. 98/384, Office of this Paper.

**SURGICAL INSTRUMENTS.**—Assistant required, capable of taking full charge of orders; one with some knowledge of Appliance Fitting preferred; Yorkshire. Apply, with full particulars as to experience, salary expected, etc., to 150/15, Office of this Paper.

**VICHY WATER.**—Live Salesman required to sell good brand of Vichy Water to Restaurants, Hotels, Chemists and Grocers; very liberal commission and expenses. Apply, by letter, to "M. B.," c/o Abbotts', Eastcheap, London, E.C.3.

**WANTED**, by a North of England manufacturing firm, a man having a Pharmaceutical training, with practical knowledge of the Compounding of Creams, Pastes and other Toilet Articles. Apply, giving experience, references and salary required, to 98/373, Office of this Paper.

**WANTED**, Representatives, calling on Chemists, etc., to push well-known line of leading Shaving Brushes; commission; territory arranged. Apply with full particulars (in confidence), to 144/1, Office of this Paper.

**WHITE, TOMKINS & COURAGE, LTD.**, Reigate, Surrey, require the services of an experienced Representative in Scotland for the sale of their Essential Oils, Essences and Food Colours; good terms to competent man. All applications will be treated in strict confidence.

### [COLONIAL, INDIA AND FOREIGN.]

**CANADA.**—Young man required as Assistant Superintendent of Tablet Department in high-grade Pharmaceutical House; must understand principles of Tablet Manufacture, and have had practical experience; ability to handle men essential. Apply 98/358, Office of this Paper, giving full particulars and salary expected.

**CEYLON.**—Dispenser required for Ceylon, holding Minor Certificate; age 24-28 years; single; must be of sober and steady habits, of good address, smart and pushful; 4 years' agreement at progressive salary. Apply in first instance, with full particulars of experience, etc., to "Dispenser," 98/363, Office of this Paper.

**PARIS.**—Wanted, Assistant for high-class Anglo-American Pharmacy in Paris, qualified, under 30, of good appearance and address; preference given to one having knowledge of French and good West End counter experience. Apply, in first instance, to J. B. Barnes & Son, Pharmacists, 205 Knightsbridge.

**ROME AND NAPLES.**—Two qualified Assistants required, one in Rome and one in Naples; must be competent Dispensers, quick, active, of good address, and able Counterman; previous Continental experience and knowledge of languages not essential. Applicants should state full particulars in first letter and enclose photograph (which will be returned) to Ricami, Eauclaire House, 3 Fleet Lane, London, E.C.4.

**SOUTH AFRICA.**—Wholesale Sundries. Wanted, for situation in South Africa, an active intelligent young man; unmarried, 3 years' agreement; passage paid out; progressive salary, commencing £24 per month; must have had good Stock-keeping experience in Patents and Sundries with up-to-date firm otherwise useless replying. Letters only. Lennon, 12 Lafone Street London, S.E.1.

## SITUATIONS WANTED.

### RETAIL.

#### [HOME.]

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

**A.A.A.**—JUNIOR, 20; Connter, Window-dressing, Dispensing and Photography; 3 years' experience; good references. "W. W.," c/o 45 West Road, Westcliff-on-Sea.

**A.A.A.**—YOUNG Lady, qualified (Minor), desires post in good-class Pharmacy in or near Manchester; temporary or permanent; good Counter and Dispensing experience, Window-dressing, Prescribing. Faragher, 35 Noel Street, Nottingham.

**A.A.A.**—GOOD remunerative position as Manager first-class business in or near London required by experienced qualified man; energetic Salesman, keen Buyer, up-to-date Window-dresser; familiar all branches Photographic (D. & P.); present post as manager four years; age 31; married; good references. Please state salary offered. 99/385, Office of this Paper.

**A.A.A.**—QUALIFIED Pharmacist, for many years engaged in Public Dispensing abroad, desires experience in Retail trade; possible view partnership or succession; nominal wage accepted. 148/28, Office of this Paper.

**A.A.A.**—QUALIFIED Manager, experienced, desires post, good-class progressive business; keen, active Salesman; all-round knowledge; single. "Salix," 149/15, Office of this Paper.

**A DISPENSER** (Hall), woman, keen worker, seeks post; had charge Branch Surgery 3 years, Public Dispensary 10 years. "P. R. N.," 3 Golf Cottages, Lower Island, Whitstable.

**APPRENTICE.**—Well-educated youth, age 18, seeks Apprenticeship in modern, good-class business in the Manchester district. 144/33, Office of this Paper.

**A CAPABLE Assistant**; unqualified; excellent all-round experience; 35; tall; energetic; reliable Salesman; highest references; London or near. 149/37, Office of this Paper.

**A QUALIFIED Chemist**, 26, tall, good appearance, 10 years' good experience in all departments, disengaged in month's time, desires management or position of trust, in London or suburbs. Reply 148/5, Office of this Paper.

**A ACTIVE**; disengaged; Manager or Locum; good experience and references; elderly; salary 63s. "Qualified," 34 Kingscote Road, Addiscombe, Croydon.

**A N experienced**, unqualified Manager, 30, desires situation; City or S.E. district preferred, but not essential; excellent references; used to taking charge; quick Counterman, Dispenser, Photography. BM/BHMF, London, W.C.1.

**A N experienced**, energetic Qualified Chemist, 42, married, desires Management; London or country; conscientious worker; good references. "Drug," 18 Gellatly Road, New Cross, S.E.14.

**A S thorough good experienced Assistant**; quick Insurance Dispenser, Counter, smart Salesman. "G.," 130 Scott-Ellis Gardens, N.W.8.

**A S temporary**, whole or part-time Assistant; unqualified; good all-round experience; good reference given. P.C.B. 4/4, Office of this Paper.

**A S Qualified Manager or Senior**; disengaged March 5; 25 years' experience as Manager; eight years last; Locum work accepted until suited; age 48; active, steady; permanency desired. "Chemist," 10 West Park Road, Kew Gardens.

**A S Superintendent**; qualified; any good proposal entertained. Write "Lennos," P.C.B. 4/27, Office of this Paper.

**A ASSISTANT**; unqualified; energetic; progressive; experience in all classes of business; thorough knowledge of Photography experienced Window-dresser; references. 146/3, Office of this Paper.



**ISTANT**, unqualified, seeks position; 6½ years' experience; excellent reference; used to N.H.I. Dispensing; holds diploma for Salesmanship; good knowledge Window-dressing, graphy. H. E. Hills, 5 Pownall Road, Fulham, S.W.6.

**ISTANT and Dispenser**; unqualified; all-round experience; can manage; temporary or permanent. "Statim," 72 Adoc Road, Clapham, S.W.4.

**ISTANT or Manager**; experienced Dispenser, Counter, Salesman; middle-aged; unqualified; good references. "tim," c/o Miss Wills, "Buttway," Cliffe-at-Hoo, Rochester.

**ISTANT**; unqualified; good all-round experience; excellent references. Jones, 157 Church Street, Paddington N. W.2.

**ISTANT**, unqualified, age 30, married, seeks permanency; Dispensing, Counter, Window-dressing, Photography; first all-round experience; good references; disengaged when red. "Live Wire," 148/37, Office of this Paper.

**URNEMOUTH**.—Qualified, 24, desires berth in or near Bournemouth; Counter, Photographics and Dispensing; fine experience and Salesman. 149/8, Office of this Paper.

**PABLE Assistant**, age 22, height 5 ft. 11 in., requires position in Sheffield or district; seven years' experience; excellent references. Write 148/32, Office of this Paper.

**CHEMIST'S Assistant**, age 22, six years' good-class experience, Dispensing, Counter, Photography, desires post as in good-class business; London or Midland Counties; excellent references. Apply "A. L.," 29 Hugh Street, Victoria.

**ENGAGED**.—Gentleman, Dispenser; Doctor's Surgery preferred. "Medicus," 18 Ely Street, Tonypandy, Glam.

**ENGAGED**, smart, up-to-date Qualified Man; 20 years' West End, South Coast experience; 39" tall; married; no abstinence; abstainer. 149/11, Office of this Paper.

**SPENSER**; five years' trade; London, country (other trades seven years; knowledge machinery, engines); some Photography, Opticals, Book-keeping, French; reduced salary until present. Alfred Jones, Oakeley Square, Blaenau, Festiniog.

**SPENSER (lady)**; experienced in Surgery, Routine, Cleaning of Instruments, Book-keeping. E. Royston, 17 Tavistock Terrace, N.19.

**PERIENCED Lady Dispenser (Hall)** desires post with Doctor; Book-keeper; salary £3; good references. 149/38, Office of this Paper.

**NTLEMAN**, 20 (Part I), energetic, good Dispenser, 3½ years' training in busy middle-class Lancashire Pharmacy; is one of gaining experience in London Pharmacy; excellent references. Particulars and salary to H. Price, 23 Wigan Road, Wigan-in-Makerfield.

**NIOR**, 20, passed Part I, good knowledge City Pharmacy, desires further experience, preferably West End. P.C.B. 4, Office of this Paper.

**DY Dispenser (Hall Certificate)**, Book-keeping and Bacteriology, desires post; age 21. Apply Picton, 6 Glenalla Road, Llanelli.

**DY Dispenser**, qualified (Hall), desires post in London; 4 years' experience. 147/30, Office of this Paper.

**DY Assistant**, unqualified, desires post with Doctor or Chemist; 12 years' experience, Counter, Dispensing, etc.; engaged. 147/37, Office of this Paper.

**DY**, unqualified, 24, desires post; thoroughly competent, reliable; 8 years' varied experience in Dispensing, Counter, Photography and Window-dressing; now at liberty. "Aspirin," Willow Street, London, E.1.

**DY Dispenser** requires part-time post or Locums, Hospital, Doctor; experienced; references; qualified. "Dispenser," 20 George's Square, N.W.1.

**DY**, 26, requires post; 10 years' Dispensing, Photographic and Retail; exceptional experience in high-class Toilet trade. M. Chapman, 8 Morningson Road, Southport, Lancs.

**DY**, with South African qualifications, wishing to continue studies in England, seeks situation in English Pharmacy. Eleine Ortlepp, 18 Schul Street, Antwerp.

**DY Dispenser (Hall qualification)**, 11 years' experience, requires post with Chemist in London; W. or N.W. district; best references. Apply P.C.B. 4/20, Office of this Paper.

**LADY Dispenser**, qualified, good Book-keeper, 10 years' experience once Hospitals and private Dispensing, N.H.I., desires post with Doctor, Chemist, Institution, or firm. 150/5, Office of this Paper.

**LOCUM or permanent**; lady Dispenser-Book-keeper (Hall), experienced, desires post, Doctor, Chemist or Hospital. Day, "Brimley," Richmond Road, Wolverhampton.

**LOCUM**; disengaged; competent; reliable; registered R.P.U.; London or suburbs. "F.," 119 Fairlands Avenue, Thornton Heath.

**LOCUM**; thoroughly competent, reliable, experienced; town or country; disengaged; terms moderate. "Industrious," 239 Camberwell New Road, S.E.5.

**LOCUM or temporary work** wanted by qualified Pharmacist; 10 years' managerial experience and excellent references. 98/381, Office of this Paper.

**MANAGER**; qualified pre-war; Photo., Window-dresser, Prescriber; wide experience. "B.," 123 Bennerley Road, S.W.11.

**MANAGER**, qualified, 31, experienced all branches of Retail, including Optics (Part B.O.A.), desires responsible position, London or suburbs. 149/24, Office of this Paper.

**M.P.S.**, F.S.M.C., Registered J.C.Q.O., aged 33, with 10 years' experience, excellent managerial experience, requires position of responsibility; competent Refractionist and capable Buyer. Window-dresser and Salesman. 148/26, Office of this Paper.

**M.P.S.** is desirous of obtaining responsible management of Pharmacy; active, willing, reliable worker, with all-round keen business experience; married; highest references and testimonials. "Bunsen," c/o Duke, Bowden Green, Pangbourne, Berks.

**PART-TIME** employment, Dispensing, Counter, Stock, Accounts; evenings 4.30 (Saturdays 1.30); qualified; West-End experience. 146/6, Office of this Paper.

**PART-TIME** situation required by Student in London; evenings 5.30-8 p.m. or day work with evenings free; Dispensing, Counter; 12 years' experience; free beginning April. Hodder, "Vevey," Seaway Road, Paignton, Devon.

**PHARMACIST**, experienced, energetic, having recently disposed of own business, seeks engagement; Locum, temporary or permanent; North or Midlands preferred. "M.P.S.," 12 Rose Bank, Rawtenstall, Lancashire.

**PHARMACIST** of experience and ability, elderly, but active and energetic, disengaged, wishes for position in business where special qualifications may be useful; capital available; or would entertain purchase of suitable business; London or district preferred. 145/35, Office of this Paper.

**PHOTOGRAPHER** seeks engagement; expert in D. and P. operating, enlarging, copying and colouring; sole control; experience in England, Canada and United States. Shaw, 82 Lupus Street, London, S.W.1.

**PLYMOUTH DISTRICT**.—Unqualified (male); age 29; fully experienced, Dispensing, Window-dressing, Counter, Photographic (including D. and P.); best references; abstainer. 145/37, Office of this Paper.

**QUALIFIED**, 26; good experience, Counter, Dispensing, Photography; energetic; excellent references; Manchester or Liverpool district preferred. Sheppard, 1 Seymour Road, Walcot, Bath.

**QUALIFIED**, 12 years' experience as Manager, desires responsible post in London; thoroughly experienced in the Toilet and Photographic trade; would consider position as Assistant with view to succession. 149/17, Office of this Paper.

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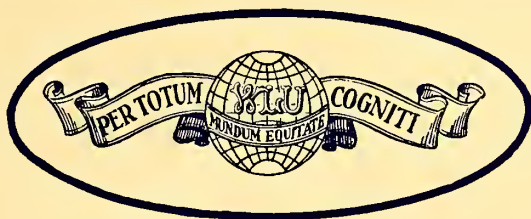
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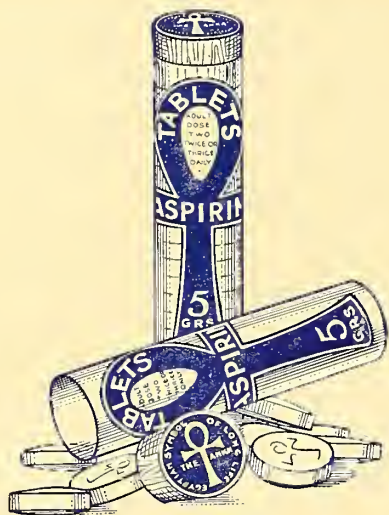
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